



TELEVISOR A LCD

MANUAL DE SERVICIO

CHASSIS : LN62A

MODELO : 37LC3R 37LC3R-MH

42LC3R 42LC3R-MH

ATENCIÓN

Antes de dar servicio al chasis, lea las PRECAUCIONES DE SEGURIDAD en este manual.



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PRECAUCIONES DE SEGURIDAD

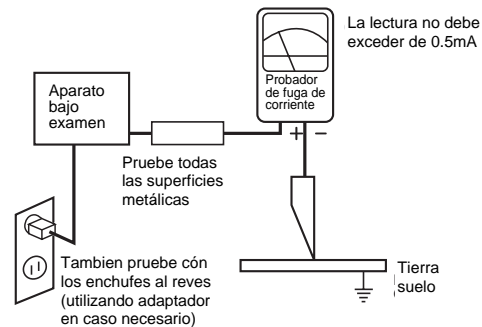
ADVERTENCIA: Antes de dar servicio a este chasis, lea "PRECAUCIONES RESPECTO A RADIACION POR RAYOS X", "INSTRUCCIONES DE SEGURIDAD" y "AVISO SOBRE SEGURIDAD DE PRODUCTOS"

INSTRUCCIONES DE SEGURIDAD

1. Cuando el receptor está en operación, se producen voltajes potencialmente tan altos como 25,000-29,000 voltios. Operar el receptor fuera de su gabinete o con la tapa trasera removida puede causar peligro de choque eléctrico.
 - (1) Nadie debe intentar dar servicio si no está debidamente familiarizado con las precauciones que son necesarias cuando se trabaja con un equipo de alto voltaje.
 - (2) Siempre descargue el ánodo del tubo de la imagen a tierra para evitar el riesgo de choque eléctrico antes de remover la tapa del ánodo.
 - (3) Descargue completamente el alto potencial del tubo de imagen antes de manipularlo. El tubo de la imagen es de alto vacío y, si se rompe, los fragmentos de vidrio salen despedidos violentamente.
2. Si se quemara algún fusible de este receptor de televisión, reemplácelo con otro especificado en la lista de partes.
3. Cuando reemplace tableros o plaquetas de circuitos, cuidadosamente enrolle sus alambres alrededor de las terminales antes de soldar.
4. Cuando reemplace un resistencia de vataje (resistor de película de óxido metálico) en el Tablero o Plaqueta de circuitos, mantenga la resistencia a un mínimo de 10mm de distancia.
5. Mantenga los alambres lejos de componentes de alto voltaje o de alta temperatura.
6. Este receptor de televisión debe conectarse a una fuente de 100 a 240 V AC.
7. Antes de devolver este aparato al cliente, haga una verificación de fuga de corriente sobre las partes metálicas del gabinete expuestas, tales como antenas, terminales, cabezas de tornillos, tapas de metal, palancas de control etc., para estar seguro de que el equipo funciona sin peligro de choque eléctrico. Enchufe el cordón directamente al tomacorriente de la línea de AC 100-240V.

No utilice una línea aislada de transformador durante esta verificación. Use un voltímetro de 1000 Ohmios por voltio de sensibilidad o más, en la forma que se describe a continuación.

Cuando la unidad está ya conectada a la AC, pulse el conmutador primero poniéndolo en "ON" (encendiendo) y luego en "OFF" (apagando), mida desde un punto de tierra conocido, tal como una (cañería de metal, una manija metálica, una tubería etc.) a todas las partes metálicas expuestas del receptor de televisión (antenas, manijas de metal, gabinetes de metal, cubiertas de metal, palancas de control etc.), especialmente cualquiera de las partes metálicas expuestas que puedan ofrecer un camino hacia el chasis. Ninguna medición de corriente eléctrica debe exceder de 0.5 miliamperios. Repita la prueba cambiando la posición del enchufe en el tomacorriente. Cualquier medición que no esté dentro de los límites especificados aquí representan un riesgo potencial de choque eléctrico que debe ser eliminado antes de devolver el equipo al cliente.



AVISO SOBRE SEGURIDAD DE PRODUCTOS

Muchas de las partes, eléctricas y mecánicas en este chasis tienen características relacionadas con la seguridad. Estas características frecuentemente pasan desapercibidas en las inspecciones visuales y la protección que proporcionan contra la RADIACION DE RAYOS-X no siempre necesariamente se obtiene al mismo grado cuando se reemplazan piezas o componentes diseñados para voltajes o vatajes mayores, etc. Las piezas que tienen estas características de seguridad se identifican por la marca Δ impresa sobre el diagrama esquemático y la marca \star impresa en la lista de partes. Antes de reemplazar alguno de esos componente, lea cuidadosamente la lista de este manual. El uso de partes de reemplazo que no tengan las mismas características de seguridad, como se especifica en la lista de partes, puede crear Radiación de Rayos-X.

ESPECIFICACIONES

NOTA: las especificaciones que reflejan mejoras en los productos están sujetos a cambios sin previo aviso.

1. Rango de Aplicación.

Esta hoja de especificaciones se aplica al chasis LN62A/B que se usa en el TV LCD de 37 pulg./42 pulg.

2. Especificaciones

Cada parte se somete a pruebas, como se indica a continuación, sin cita especial.

- 2.1 Temperatura : $25 \pm 5^{\circ}\text{C}$ ($77 \pm 9^{\circ}\text{F}$), CST : 40 ± 5
- 2.2 Humedad relativa : $65\% \pm 10\%$
- 2.3 Voltaje de alimentación: Voltaje de entrada estándar (100~240V a 50/60Hz)
*El voltaje estándar de cada producto está marcado según el modelo
- 2.4 Después de cada ilustración y especificación por número de parte, de acuerdo con BOM, aparece la especificación y rendimiento de cada parte.
- 2.5 El receptor debe funcionar cerca de 20 minutos antes del ajuste.

3. Método de prueba

- 3.1 Rendimiento: se sigue el método de prueba LGE TV.
- 3.2 Otra especificación solicitada
Seguridad: Especificación CE, IEC
EMC : CE, IEC

4. Especificación Eléctrica

N°	Elemento	Especificaciones	Observaciones
1.	Sistema aplicable de entrada de video	NTSC 4.43	
2.	Sistema de Transmisión	NTSC	
	Apto para Recepción		
3.	Canal de Entrada RF	BANDA	NTSC
		VHF	
		UHF	
		CATV	
4.	Voltaje de Entrada	AC 100 ~ 240 V/50Hz, 60Hz	
5.	Mercado	Centroamérica y Sudamérica	
6.	Tamaño de Pantalla Activa	940.3 mm(diagonal)	37,02 pulgadas
		1067.308 mm(diagonal)	42,02 pulgadas
7.	Sistema de Sintonización	FVS 100 programas FS	
8.	Entorno Operativo	1) Temp.: 0 ~ 40 grados 2) Humedad: 10 ~ 90 % HR	
9.	Entorno de Almacenamiento	1) Temp.: -20 ~ 50 grados 2) Humedad: 10 ~ 90 % HR	
10.	Pantalla	Módulo LCD	42 pulg. LPL 37 pulg. LPL

5. Especificaciones Generales

N°	Elemento			Especificaciones		Observaciones
1	Panel			LCD TFT WXGA de 37 pulg, 42 pulg		
2	Rango de Frecuencia			H : 31 ~ 61Khz V : 56 ~ 75Hz		Entrada de PC
3	Función de Control			1) Contraste/Brillo 2) Posición H/ Posición V 3) Rastreo: Reloj / Fase 4) Configuración automática 5) Restablecimiento		
4	Enchufe para Componentes (480i/576i/480p/576p/720p/1080i)			Y/Pb/Pr : 2EA		MH, ML
5	Encendido			LED	Consumo de energía	
				Blanco	≤ 190W(37") ≤ 230W(42")	
	Espera			ROJO	≤ 1W	
6	Módulo LCD	Contorno	37"	877.0 x 516.8 x 55.5		(H)mmx(V)mmx(D)mm
		Dimensión	42"	1006 x 610 x 56		
		Distancia entre	37"	0.200 x 0.600 x RGB		
		Píxeles	42"	0.227 x 0.681 x RGB		
		Formato de Píxeles		Disposición de franjas RGB en píxeles de 1366 x 768		
		Recubrimiento		Recubrimiento duro (3H), tratamiento antirreflejo del polarizador frontal		
		Retroiluminación	37"	16CCFL		
			42"	20CCFL		

6. Ajustar Características Ópticas

N°	Parámetro	Símbolo		Valor			Unidad	Medición
				Mín	Típico	Máx		
1.	Relación de Contraste	CR	37"	800	1200			(*) Modo Normal
			42"	700	1000			- Patrón blanco completo de ventana 100IRE - APC : Óptimo
2.	Luminosidad de superficie, blanca	L _{WH}	360	450			Cd/m ²	(*) Modo Normal - Patrón blanco completo de ventana 100IRE - APC : Óptimo
3.	Coordinado Blanco	Normal	X axis	0.280	0.283	0.286		- Patrón blanco completo 85IRE - APC : Óptimo
			Y axis	0.295	0.298	0.301		
		Frío	X axis	0.271	0.274	0.277		
			Y axis	0.283	0.286	0.289		
		Cálido	X axis	0.300	0.303	0.306		
			Y axis	0.316	0.319	0.322		
4.	Temperatura de Color	Normal		8300	9300	10300		- Patrón blanco completo 85IRE - APC : Estándar
		Frío		6200	7200	8200		
		Cálido		10000	11000	12000		
5.	Gama de intensidad de colores	PAL		-500		+500	Hz	
		NTSC		-500		+500	Hz	
6.	Sensibilidad del supresor de color						-80	dBm

7. Chroma & Brightness

N°	Parámetro		Símbolo		Valor			Unidad	Medición
					Mín	Típico	Máx		
1.	Relación de Contraste		CR	37"	800	1200			(*) Modo Normal - Patrón blanco completo de ventana 100IRE - APC : Claro (Dinámico)
42"				700	1000				
2.	Luminosidad de superficie, blanca		LWH		400	500		Cd/m²	(*) Modo Normal - Patrón blanco completo de ventana 100IRE - APC : Claro (Dinámico)
3.	Variación de Luminosidad		5BLANCO	5P			1.3		
4.	Tiempo de respuesta	37"	Tiempo de subida	TrR		8	16	ms	
			Tiempo de bajada	TrD		9	16	ms	
			Gris a gris			9	12	ms	
		42"	Tiempo de subida	TrR		8	16	ms	
			Tiempo de bajada	TrD		10	14	ms	
			Gris a gris			8	12	ms	
5.	Coordenadas de color [CIE1931]	37"	ROJO	Rx	Típico -0.03	0.640	Típico +0.03		- Patrón blanco completo 85IRE - APC : Estándar - APC : Óptimo
				Ry		0.341			
			VERDE	Gx		0.287			
				Gy		0.610			
			AZUL	Bx		0.146			
				By		0.069			
			BLANCO	Wx		0.285			
				Wy		0.293			
		42"	ROJO	Rx	Típico -0.03	0.633	Típico +0.03		- Patrón blanco completo 85IRE - APC : Estándar - APC : Óptimo
				Ry		0.339			
			VERDE	Gx		0.286			
				Gy		0.610			
			AZUL	Bx		0.147			
				By		0.065			
			BLANCO	Wx		0.281			
				Wy		0.293			
6.	Ángulo de Visualización (CR > 10)	eje x, derecho (Ø=0°)	Ør	85	89		grado		
				85	89				
		eje x, izquierdo (Ø=180°)	Øl	85	89				
				85	89				
		eje y, arriba (Ø=90°)	Øu	85	89				
				85	89				
		eje y, abajo (Ø=270°)	Ød	85	89				
				85	89				

8. Entrada de Video de Componente (Y, PB, PR)

N°	Resolución	Frecuencia H (kHz)	Frecuencia V (kHz)	Reloj de píxeles (MHz)	Observaciones
1.	720 x 480	15.73	59.94	13.500	SDTV, DVD 480I(525I)
2.	720 x 480	15.75	60.00	13.514	SDTV, DVD 480I(525I)
3.	720 x 576	15.625	50.00	13.500	SDTV, DVD 576I(625I)
4.	720 x 480	31.47	59.94	27.000	SDTV 480P
5.	720 x 480	31.50	60.00	27.027	SDTV 480P
6.	720 x 576	31.25	50.00	27.000	SDTV 576P
7.	1280 x 720	44.96	59.94	74.176	HDTV 720P
8.	1280 x 720	45.00	60.00	74.250	HDTV 720P
9.	1280 x 720	37.50	50.00	74.25	HDTV 720P 50Hz
10.	1920 x 1080	33.72	59.94	74.176	HDTV 1080I
11.	1920 x 1080	33.75	60.00	74.250	HDTV 1080I
12.	1920 x 1080	28.125	50.00	74.250	HDTV 1080I 50Hz

9. Entrada RGB (PC)

N°	Resolución	Frecuencia H (kHz)	Frecuencia V (kHz)	Reloj de píxeles (MHz)	Observaciones
1	720 x 400	31.469	70.08	28.32	DOS
2.	640 x 480	31.469	59.94	25.17	VESA(VGA)
3	640 x 480	37.500	75.00	31.50	VESA(VGA)
4	800 x 600	37.879	60.31	40.00	VESA(SVGA)
5	800 x 600	46.875	75.00	49.50	VESA(SVGA)
6	832 x 624	49.725	74.55	57.28	Macintosh
7	1024 x 768	48.363	60.00	65.00	VESA(XGA)
8	1024 x 768	56.476	70.06	75.00	VESA(XGA)
9	1024 x 768	60.023	75.02	78.75	VESA(XGA)
10	1280 x 768	47.693	59.99	80.125	WXGA(42XGA,50", 60")
11	1360 x 768	47.700	60.00	84.62	WXGA(42XGA,50", 60")
12	1366 x 768	47.700	60.00	84.62	WXGA(42XGA,50", 60")

10. Entrada RGB (DTV)

N°	Resolución	Frecuencia H (kHz)	Frecuencia V (kHz)	Reloj de píxeles (MHz)	Observaciones
1.	720 x 480	31.47	59.94	27.000	SDTV 480P
2.	720 x 480	31.50	60.00	27.027	SDTV 480P
3.	720 x 576	31.25	50.00	27.000	SDTV 576P
4.	1280 x 720	44.96	59.94	74.176	HDTV 720P
5.	1280 x 720	45.00	60.00	74.250	HDTV 720P
6.	1280 x 720	37.50	50.00	74.25	HDTV 720P 50Hz
7.	1920 x 1080	33.72	59.94	74.176	HDTV 1080I
8.	1920 x 1080	33.75	60.00	74.250	HDTV 1080I
9.	1920 x 1080	28.125	50.00	74.250	HDTV 1080I 50Hz

11. Entrada HDMI (PC)

N°	Resolución	Frecuencia H (kHz)	Frecuencia V (kHz)	Reloj de píxeles (MHz)	Observaciones
1	720 x 400	31.469	70.08	28.32	DOS
2	640 x 480	31.469	59.94	25.17	VESA(VGA)
3	640 x 480	37.500	75.00	31.50	VESA(VGA)
4	800 x 600	37.879	60.31	40.00	VESA(SVGA)
5	800 x 600	46.875	75.00	49.50	VESA(SVGA)
6.	832 x 624	49.725	74.55	57.28	Macintosh
7	1024 x 768	48.363	60.00	65.00	VESA(XGA)
8	1024 x 768	56.476	70.06	75.00	VESA(XGA)
9	1024 x 768	60.023	75.02	78.75	VESA(XGA)
10	1280 x 768	47.693	59.99	80.125	WXGA(42XGA,50", 60")
11	1360 x 768	47.700	60.00	84.62	WXGA(42XGA,50", 60")
12	1366 x 768	47.700	60.00	84.62	WXGA(42XGA,50", 60")

12. Entrada HDMI (DTV)

N°	Resolución	Frecuencia H (kHz)	Frecuencia V (kHz)	Reloj de píxeles (MHz)	Observaciones
1.	720 x 480	31.47	59.94	27.000	SDTV 480P
2.	720 x 480	31.50	60.00	27.027	SDTV 480P
3.	720 x 576	31.25	50.00	27.000	SDTV 576P
4.	1280 x 720	44.96	59.94	74.176	HDTV 720P
5.	1280 x 720	45.00	60.00	74.250	HDTV 720P
6.	1280 x 720	37.50	50.00	74.25	HDTV 720P 50Hz
7.	1920 x 1080	33.72	59.94	74.176	HDTV 1080I
8.	1920 x 1080	33.75	60.00	74.250	HDTV 1080I
9.	1920 x 1080	28.125	50.00	74.250	HDTV 1080I 50Hz

13. Especificaciones mecánicas

13.1. 37LC3R

N°	Elemento		Contenido				Observaciones
1.	Dimensiones del Producto		Ancho	Largo	Alto	Unidad	
		Antes de Empacar	1060	299	659	mm	TELEVISOR (Con Soporte)
		Después de Empacar	1152	374	772	mm	
2.	Peso del Producto	Sólo el TELEVISOR	31			Kg	
		Con CAJA	35.5			Kg	

13.2. 42LC3R

N°	Elemento		Contenido				Observaciones
1.	Dimensiones del Producto		Ancho	Largo	Alto	Unidad	
		Antes de Empacar	1195.5	319.3	759.8	mm	TELEVISOR (Con Soporte)
		Después de Empacar	1282	386	877	mm	
2.	Peso del Producto	Sólo el TELEVISOR	38.8			Kg	
		Con CAJA	43.7			Kg	

INSTRUCCIONES DE AJUSTE

1. Rango de Aplicación

Esta hoja de especificaciones se aplica a todos los chasis LN62A/B (H3-High) fabricados en la Planta de televisores de LG en todo el mundo.

2. Especificaciones

- 2.1 Debido a que éste no es un chasis en caliente, no es necesario utilizar un transformador de aislamiento. Sin embargo, el uso de un transformador de aislamiento ayudará a proteger los instrumentos de prueba.
- 2.2 El ajuste se debe realizar siguiendo la secuencia correcta.
- 2.3 El ajuste se debe realizar a una temperatura de $25 \pm 5^\circ\text{C}$ y con una humedad relativa de $65 \pm 10\%$ de no existir una designación específica.
- 2.4 El voltaje de entrada del receptor se debe mantener entre 100~220V, 50/60Hz.
- 2.5 Antes de hacer el ajuste, realice la Prueba de Funcionamiento durante 30 minutos con radio frecuencia sin señal.

3. Elementos de ajuste

3.1 Elementos de ajuste de PCB

- Memoria de canales
- Descargue los datos de canales de BOM a EEPROM mediante el uso de LGIDS.
- Ajuste de opciones después de BOM
- Tool Option1 (Opción Herramientas 1)
- Tool Option2 (Opción Herramientas 2)
- Area Option (Opción Área)

LN62x	
Cortez Version	x.xx
Panel Used XX hr.	
Tool Option1	7
Tool Option2	161
Area Option	16
:	
:	

(Figura. 1)

- 1) Presione la tecla ADJ en Adjust Remocon (Ajustar Remocon).
- 2) Ingrese el Option Number (Número de Opción) especificado en BOM, en el área Shipping (Envío).
- 3) Seleccione "Tool Option1/ Tool Option2/ Area Option" mediante las teclas $\blacktriangle/\blacktriangledown$ (CH+/-) y presione la tecla numérica (0~9) en forma consecutiva
ejemplo) Si el valor de Tool Option1 es 7, ingrese la información con la tecla numérica "7" (Figura. 1)

3.2 Elementos de ajuste del TELEVISOR

- Balance de Color Automático VIDEO1
- Ajuste de Balance de Blancos
- Ajuste de Balance de Color Automático de los Componentes
 - equipo estándar: MSPG925FA
- Ajuste de Balance de Color Automático de RGB
 - equipo estándar: MSPG925FA

(En el modelo DVR, revise la función DVR al igual que la siguiente lista)

- Revisión de la función DVR y HDD

=> Revise la función DVR de la siguiente manera en 4.2 y busque la falla HDD en funcionamiento incorrecto.

4. EDID

4.1 Datos

4.1.1 ANALÓGICO (256 Bytes)

- BLOQUE 1 (128 BYTES)

=> Caution: - Never connect HDMI & DVI-D & DVI-A Cable at the same time.

- Use the proper cables below for EDID Writing

4.1 EDID Data

4.1.1. ANALOG(256 Bytes)

- BLOCK1 (128BYTE)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	a			b		
10		c	01	03	01	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18	00	00	00	FD	00	38
60	4B	1F	3D	09	00	0A	20	20	20	20	20	20		d		
70															00	e

4.1.2. HDMI(256 Bytes)

- BLOCK1 (128BYTE)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	00	FF	FF	FF	FF	FF	FF	00	1E	6D	a			b		
10		c	01	03	80	46	27	78	EA	D9	B0	A3	57	49	9C	25
20	11	49	4B	A5	6E	80	31	40	01	01	01	01	45	40	01	01
30	61	40	01	01	01	01	1B	21	50	A0	51	00	1E	30	48	88
40	35	00	BC	88	21	00	00	1C	4E	1F	00	80	51	00	1E	30
50	40	80	37	00	BC	88	21	00	00	18				d		
60														00	00	FD
70	00	38	4B	1F	3D	09	00	0A	20	20	20	20	20	20	01	e

- BLOCK2 (128BYTE)

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
00	02	03	24	F1	49	85	04	02	01	03	11	12	13	14	23	09
10	07	07	23	09	07	07	23	09	07	07	83	01	00	00	65	03
20	0C	00	10	00	01	1D	00	80	51	D0	1C	20	40	80	35	00
30	BC	88	21	00	00	1E	8C	0A	D0	8A	20	E0	2D	10	10	3E
40	96	00	13	8E	21	00	00	18	2A	12	00	10	41	43	17	20
50	28	60	35	00	00	00	32	00	00	1C	01	1D	80	18	71	1C
60	16	20	58	2C	25	00	C4	8E	21	00	00	9E	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	6B

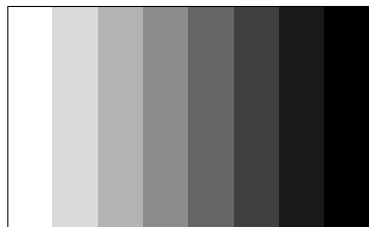
5. Calibración ADC

5.1 Ajuste de RF/AV/S-VIDEO

* Equipos Necesarios

- Controlador remoto para ajustes
- Generador de Patrones 802F, Maestro (MSPG-925FA), etc.
- Generador de Patrones MSPG-925FA
(Que tiene Señal de Video: Patrón de Barra de Colores de 100%, ilustrado en la Figura. 1)

⇒ Modelo: 201 / Patrón: 33 (NTSC : MH)



(Figura. 1)

5.1.1 Método de Balance de Colores Automático RF/AV/S-VIDEO.

- 1) Presione la tecla FRONT-AV (AV FRONTAL) en R/C para convertir el modo de entrada.
- 2) Ingrese la Señal de Video: Señal de Barra de Colores de 100% en VIDEO1(MH)
- 3) Ajuste el PSM en el modo Optimum (Óptimo) en el menú Picture (Imagen).
- 4) Presione la tecla INSTART en R/C para realizar el ajuste.
- 5) Presione la tecla ►(Vol. +) para hacer funcionar el ajuste; luego, se realiza en forma automática.
- 6) Auto-RGB OK significa que el ajuste está completo

5.1.2 Requisito

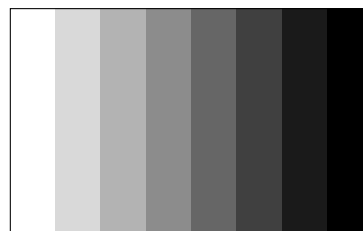
- Este ajuste de balance de color AV debe realizarse antes del Ajuste de Balance de Blancos.
- Luego del ajuste de balance de color AV, cambie el modo de AV a RF.
(Cancele el modo de prueba de funcionamiento).

5.2 Ajuste del Componente.

* Equipos Necesarios

- Controlador remoto para ajustes
 - Generador de Patrones 802F, Maestro (MSPG-925FA), etc.
 - Generador de Patrones MSPG-925FA
(Que tiene señal YPbPr 720p@60Hz: Patrón de Barra de Colores de 100%, ilustrado en la Figura. 2)
- ⇒ Modelo: 217 / Patrón: 33
- Es muy importante usar el patrón de ajuste correcto como el de la Figura 2.
 - Dentro del patrón, debe alinearse la secuencia de color : lanco-Amarillo-Cian-Verde-Magenta-Rojo-AZUL-NEGRO
(Si la secuencia de color se invierte (Negro -> ...-> Blanco), invierta el patrón con la tecla REV, cuando use el generador de patrones Maestro como el MSPG-925)

- Si el Nivel de Negro Mínimo y/o Nivel de Blanco Máximo no es correcto, seleccione el Patrón de Barra de Colores de 100%.



(Figura. 2)

5.2.1 Método de Balance de Color Automático de los Componentes

- 1) Ingrese la señal de la Barra de Colores 100% del Componente 720p (modelo MSPG-925FA: 217, patrón: 33) en el Componente. (MH : componente 1)
- 2) Ajuste el PSM en el modo Estándar en el menú Picture.
- 3) Presione la tecla INSTART en R/C para realizar el ajuste.
- 4) Presione la tecla ►(Vol. +) para hacer funcionar el ajuste; luego, se realiza en forma automática.
- 5) Auto-RGB OK significa que el ajuste está completo.

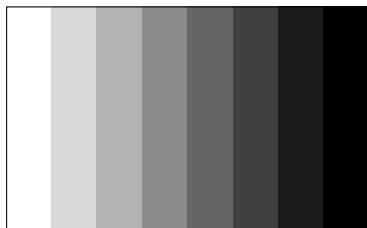
5.2.2 Método de Balance de Color DVR Automático de los Componentes 2.

- 1) Ingrese la señal de la Barra de Colores de 100% Componente 576i (modelo MSPG-925FA: 212 / patrón: 33) en el componente. (ML : componente 2)
- 2) Presione la tecla INSTART después de presionar la tecla TURBO PICTURE (IMAGEN TURBO) en R/C para ajuste.
- 3) Presione la tecla ►(Vol. +) para hacer funcionar el ajuste, luego, se realiza en forma automática.
- 4) Auto-RGB OK significa que el ajuste está completo.

5.3 Ajuste de RGB

* Equipos Necesarios

- Controlador remoto para ajustes
- Generador de patrones 802F, Maestro (MSPG-925FA), etc.
- Generador de Patrones MSPG-925FA
(Que tiene señal de salida de formato PC de 60 Hz XGA [1024*768]: Patrón de Barra de Colores de 100%, ilustrado en la Figura. 3)
- Es muy importante usar el patrón de ajuste correcto como el de la Figura 10.
 - Dentro del patrón, debe alinearse la secuencia de color : Blanco-Amarillo-Cian-Verde-Magenta-Rojo-AZUL-NEGRO
(Si la secuencia de color se invierte (Negro -> ...-> Blanco), invierta el patrón con la tecla REV, cuando use el generador de patrones Maestro como el MSPG-925)
 - Si el Nivel de Negro Mínimo y/o Nivel de Blanco Máximo no es correcto, seleccione el Patrón de Barra de Colores de 100%.



(Figura. 3)

5.3.1 Método de Balance de Color Automático RGB

- 1) Ingrese PC 1024x768 a 60Hz con el patrón de barra de colores de 100% como el de la Figura 3. en RGB.
(Ejemplo. MSPG-925FA, modelo:3, patrón:33)
- 2) Ajuste el PSM en el modo Optimum (Óptimo) en el menú Picture (Imagen).
- 3) Presione la tecla INSTART en R/C para realizar el ajuste.
- 4) Presione la tecla ►(Vol. +) para hacer funcionar el ajuste; luego, se realiza en forma automática.
- 5) Auto-RGB OK significa que el ajuste está completo.

6. Balance de Blancos

- => Precaución: Antes de realizar el Balance de blancos, se debe hacer el AV ADC. (MH/ML:VIDEO1)
- Aviso: Antes de realizar el balance de Blancos, cambie el modo de entrada
Muévelo a VIDEO1(MH) usando la TECLA FRONT-AV (AV FRONTAL) en el Control remoto.

Balance de blancos		MH/ML(VIDEO1)
MSPG925FA	Nivel 216 (85IRE)	Modelo: 201
	Patrón de pantalla completa	• NTSC Video

- => Precaución: - El Servidor RS-232 de control del sistema debe estar en "PC" para realizar el ajuste.

* Equipo de Prueba

Analizador de Colores (CA-110)

PC (para comunicarse a través de RS-232C) =>

Velocidad de transferencia de datos UART: 115200

Generador de Patrones (MSPG-925FA etc.)

* Valor Objetivo [PSM: Estándar, CSM: Normal]

-Normal (9300K±1000K) x:283±0,003, y: 298±0,003

-Luminosidad (Y) AV: Mín. 250 Cd/m2 (LPL)

AV: Mín. 200 Cd/m2 (AUO)

=> Valor de Referencia (Fijado en forma automática)

- Frío (11000K±1000K)

- Cálido (7200K±1000K)

6.1 Balance de Blancos Manual (AV)

- 1) Ejecute la Calibración Cero CA-110.
- 2) Ejecute la Prueba de Funcionamiento del TELEVISOR durante 30 minutos
- 3) Como lo indica la Figura 4, Suministre patrón de pantalla completa nivel 216 (85 IRE) a la entrada de Video VIDEO1 (Entrada 60Hz)
- 4) Presione la tecla FRONT-AV (AV FRONTAL) en R/C para convertir el modo de entrada.
- 5) Ajuste el PSM en el modo Optimum (Óptimo) en el menú Picture (Imagen).
- 6) Ingrese el modo de ajuste Balance de Blancos presionando la tecla INSTART dos veces (Balance de Blancos) en R/C.
- 7) Coloque el sensor en el centro de la pantalla y seleccione

cada elemento (Ganancia y Compensación Roja/Verde/Azul) usando las teclas ▲/▼(CH+/-) en R/C.

- 8) Ajuste Sólo la luz Alta con Ganancia R / Ganancia B usando la tecla ◀/▶ (VOL +/-) en R/C.

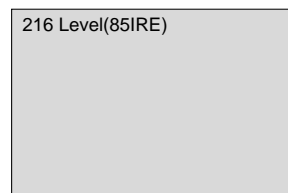
- 9) Ajuste hasta que la coordinación de color sea la siguiente.

X-eje : 0,283 ± 0,003

Y-eje: 0,298 ± 0,003

(Los valores predeterminados de ganancia R/G/B y compensación R/G/B son diferentes según el módulo en uso)

- 10) Ajuste la luz Alta con Ganancia R/B.



(Fig.4)

6.2 Balance de Blancos Automático (AV)

- 1) Módulo LPL

	comando 1	comando2	Configurar ID	Datos	
				Mín	Máx
Selección de Entrada	XB	B	00	00h	90h
Ganancia R	J	A	00	00h	E0h
Ganancia G	J	B	00	00h	E0h
Ganancia B	J	C	00	00h	E0h
Compensación R	J	D	00	00h	90h
Compensación G	J	E	00	00h	90h
Compensación B	J	F	00	00h	90h

- 2) Módulo AUO

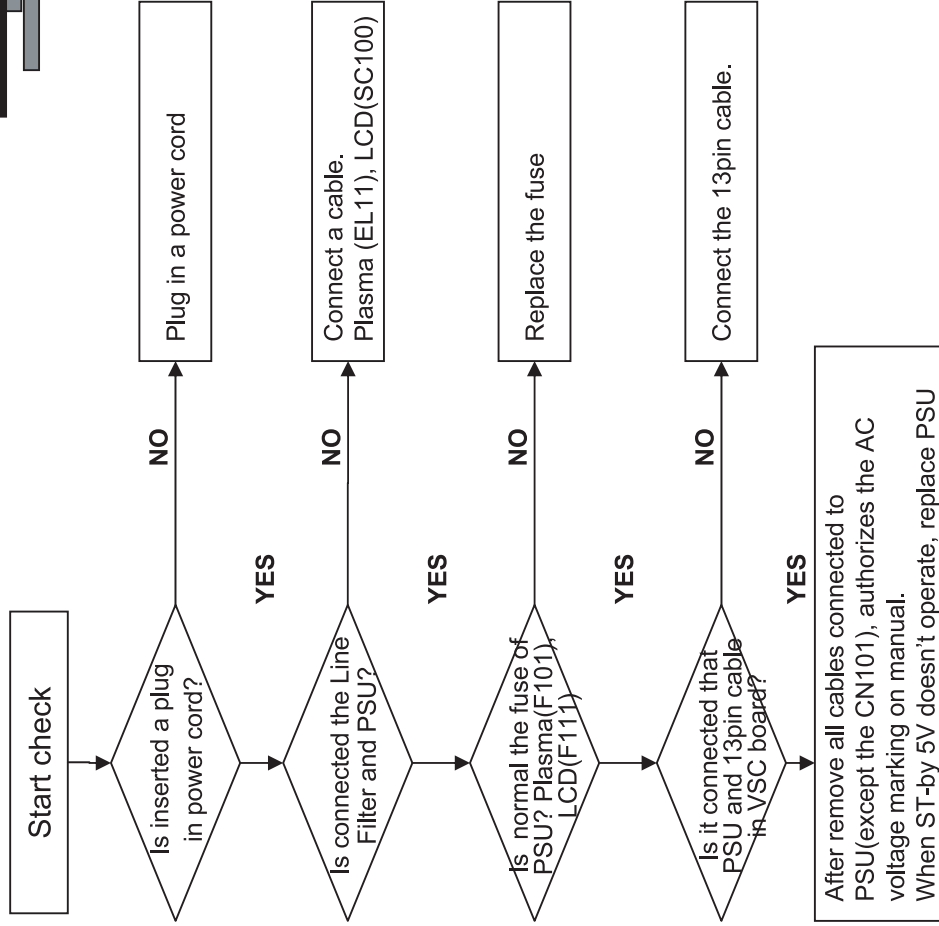
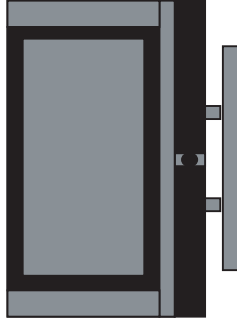
	comando 1	comando2	Configurar ID	Datos	
				Mín	Máx
Selección de Entrada	XB	B	00	00h	90h
Ganancia R	J	A	00	00h	E0h
Ganancia G	J	B	00	00h	E0h
Ganancia B	J	C	00	00h	E0h
Compensación R	J	D	00	00h	90h
Compensación G	J	E	00	00h	90h
Compensación B	J	F	00	00h	90h

SOLUCIÓN DE AVERÍAS

1. No power

Symptom

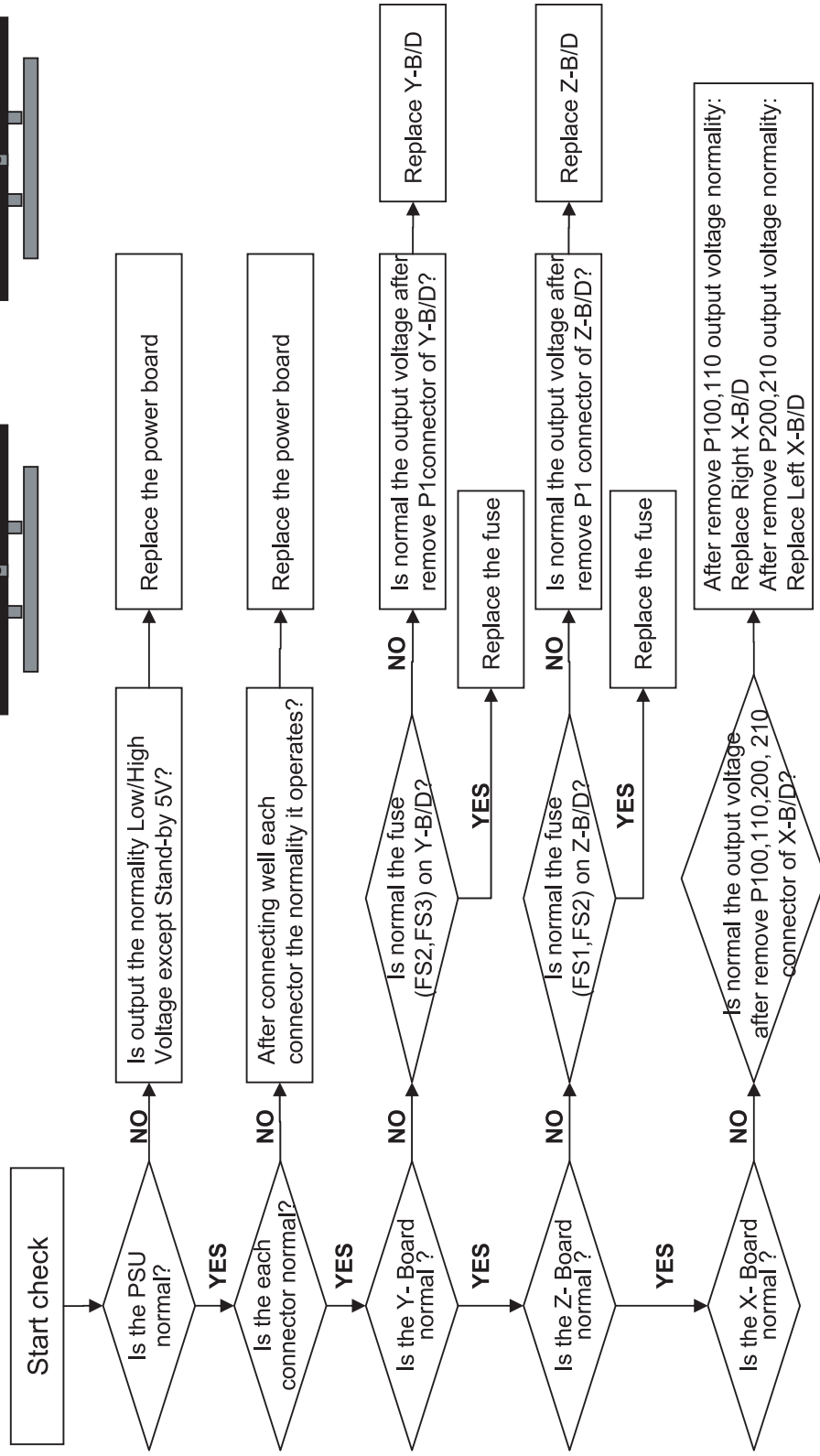
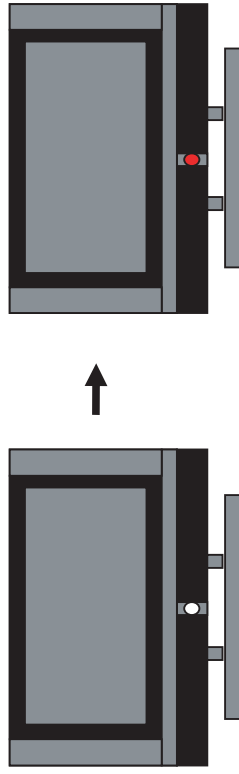
- 1) Minute discharge doesn't occur at module.
- 2) Front LED doesn't come into action.



2. Protection mode

Symptom

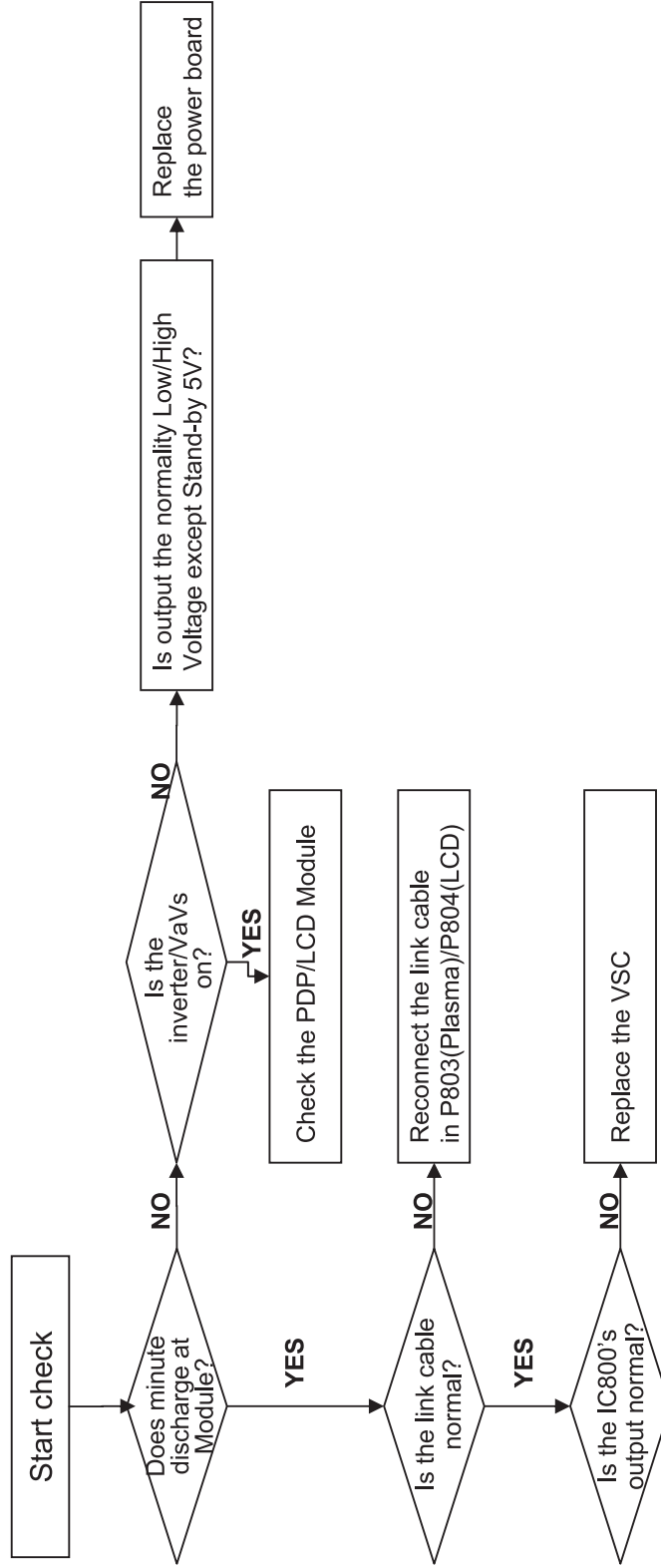
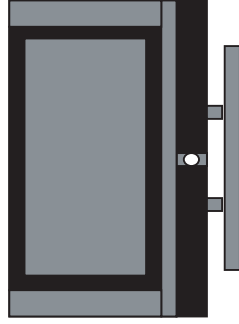
- 1) After once shining, it doesn't discharge minutely from module.
- 2) The relay falls.(The sound is audible " Click")
- 3) It is converted with the color where the front LED is red from white.



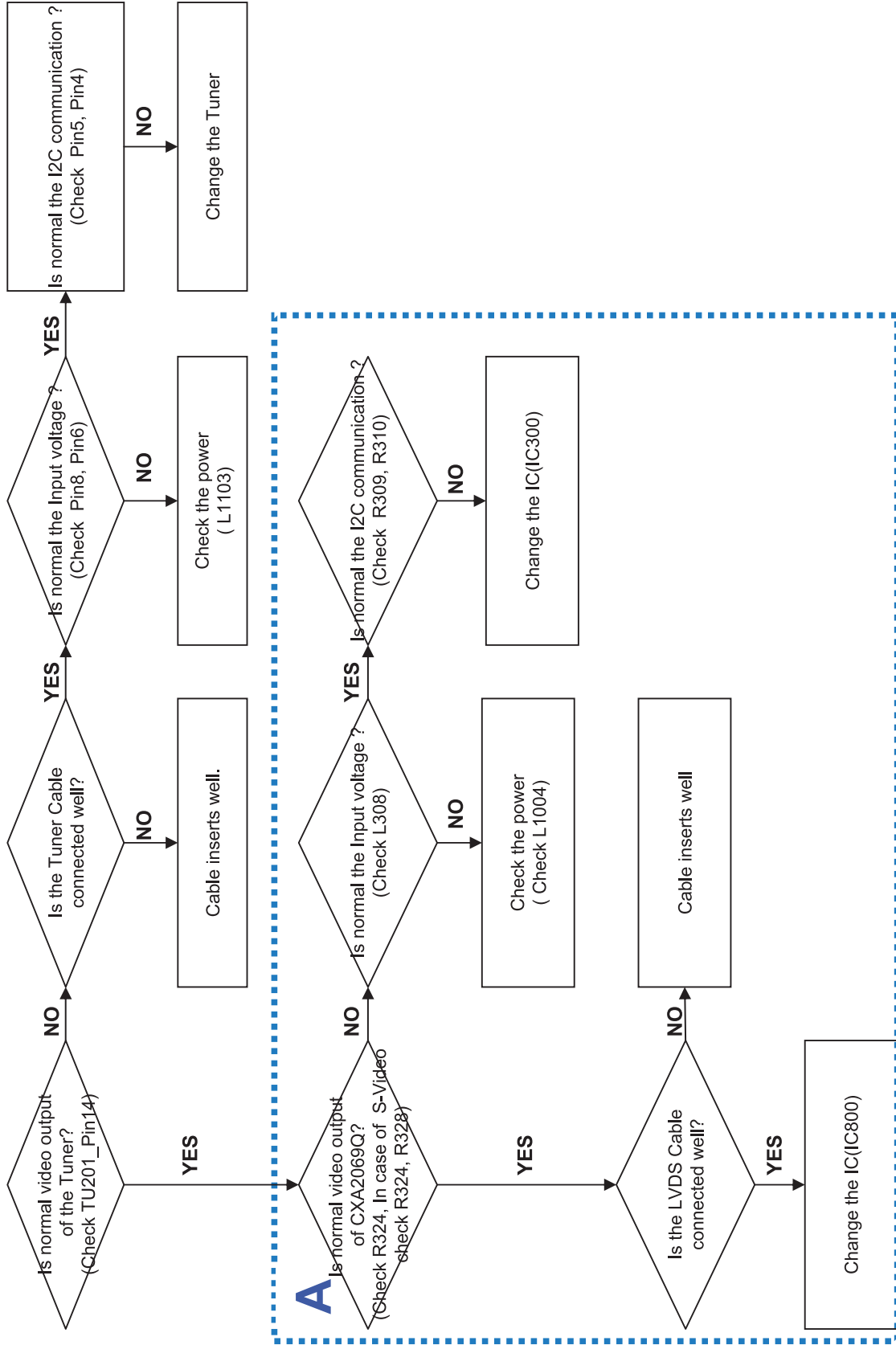
3. No Raster

Symptom

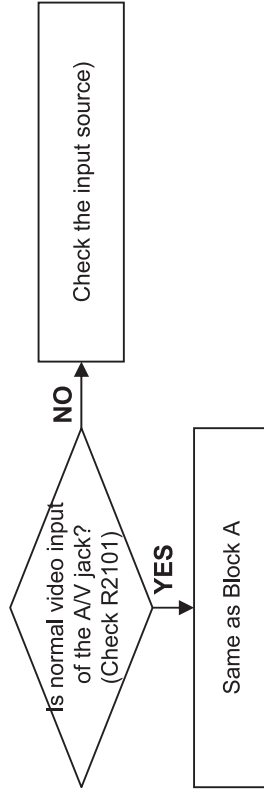
- 1) No OSD and image occur at screen.
- 2) It maintains the condition where the front LED is white



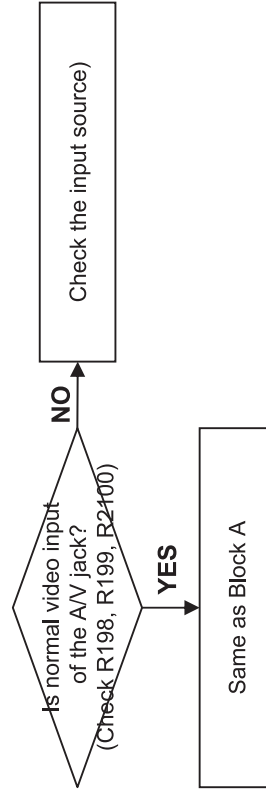
4. In case of becomes unusual display from RF mode(Main)



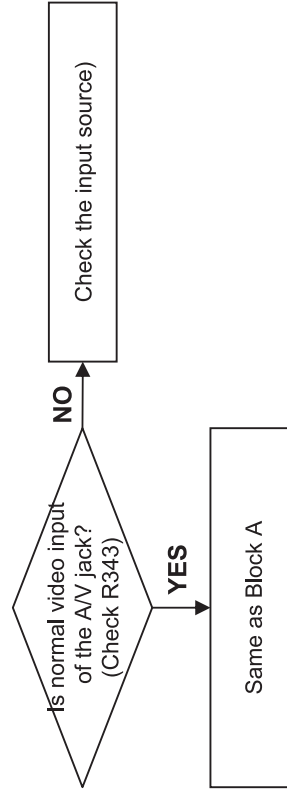
5. In the case of becomes unusual display from rear AV mode(main)



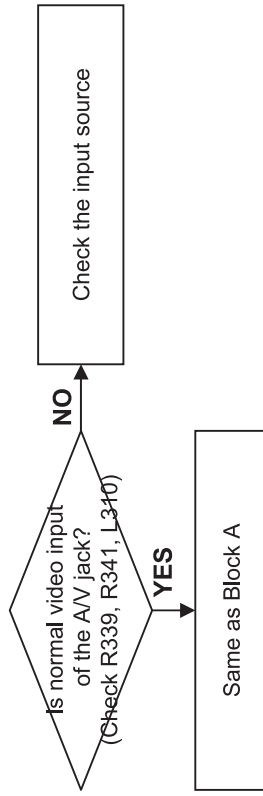
6. In the case of becomes unusual display from rear S-Video mode(main)



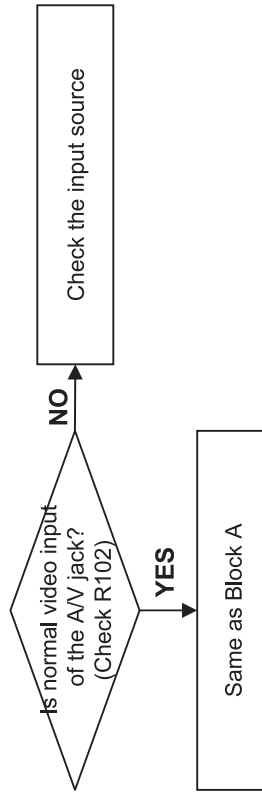
7. In the case of becomes unusual display from side AV mode(main)



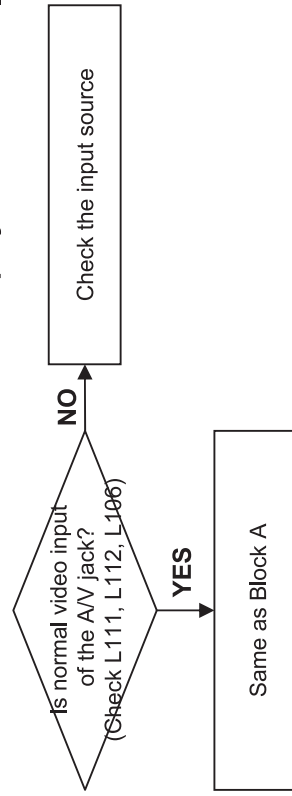
8. In the case of becomes unusual display from side S-Video mode(main)



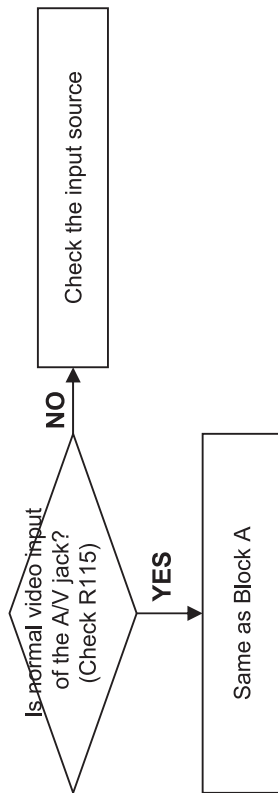
9. In the case of becomes unusual display from SCART 1 mode(main)



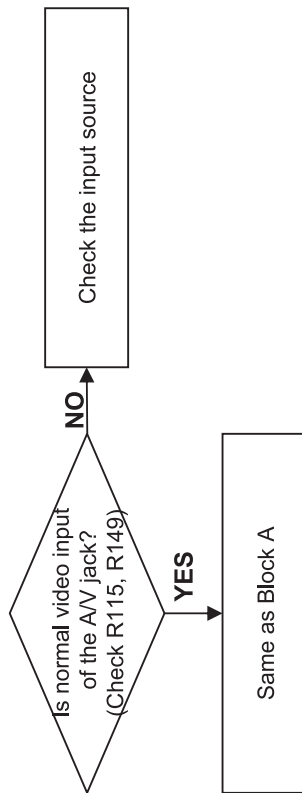
10. In the case of becomes unusual display from SCART 1_RGB mode(main)



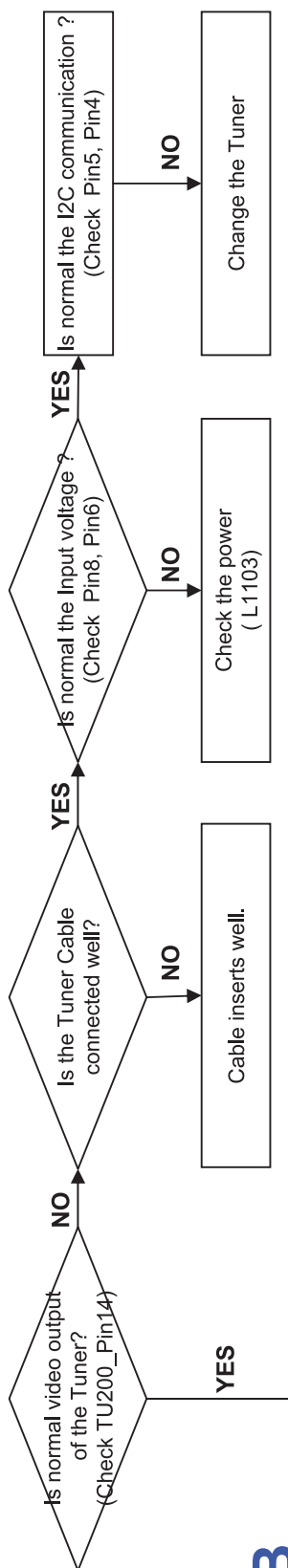
11. In the case of becomes unusual display from SCART 2 mode(main)



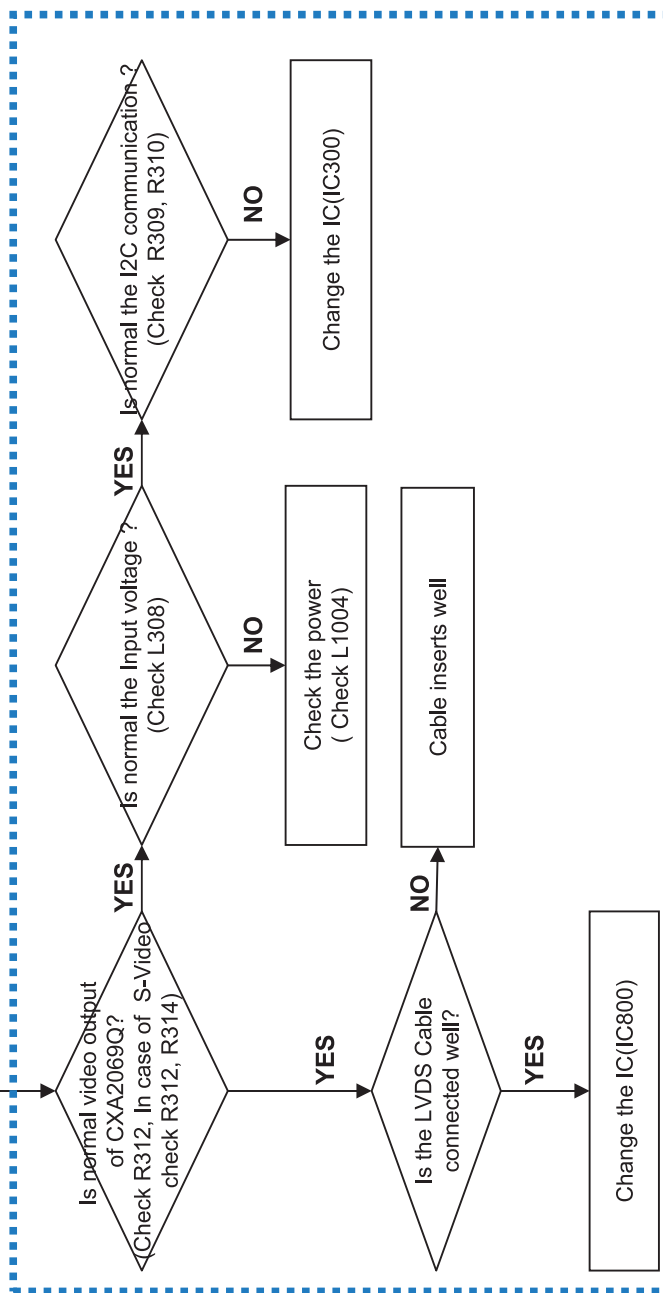
12. In the case of becomes unusual display from SCART 2_YC mode(main)



13. In case of becomes unusual display from RF mode(Sub)



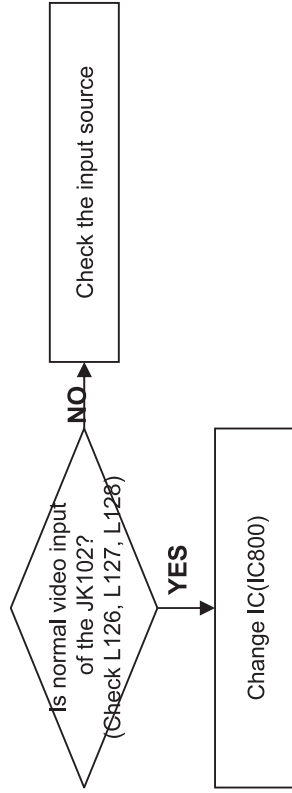
B



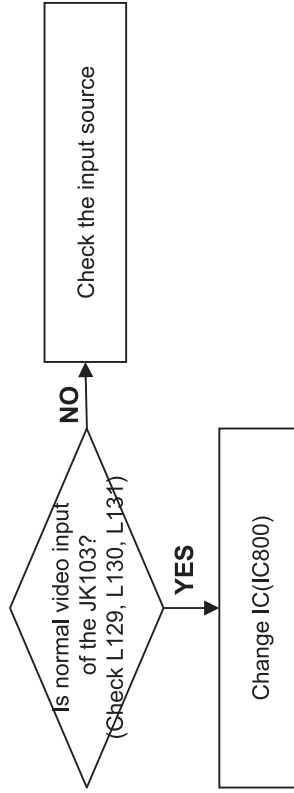
14. In case PIP doesn't display from other modes(Sub)

☐ Same as the case of main except block A should be change to B

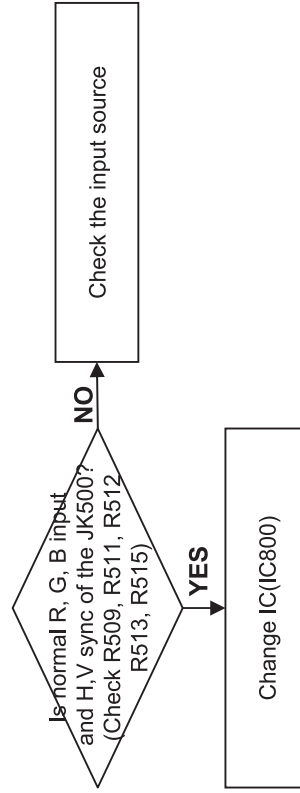
15. In case of becomes unusual display from component1 mode(main/sub)



16. In case of becomes unusual display from component 2 mode(main/sub)



17. In case of becomes unusual display from RGB mode(main/sub)



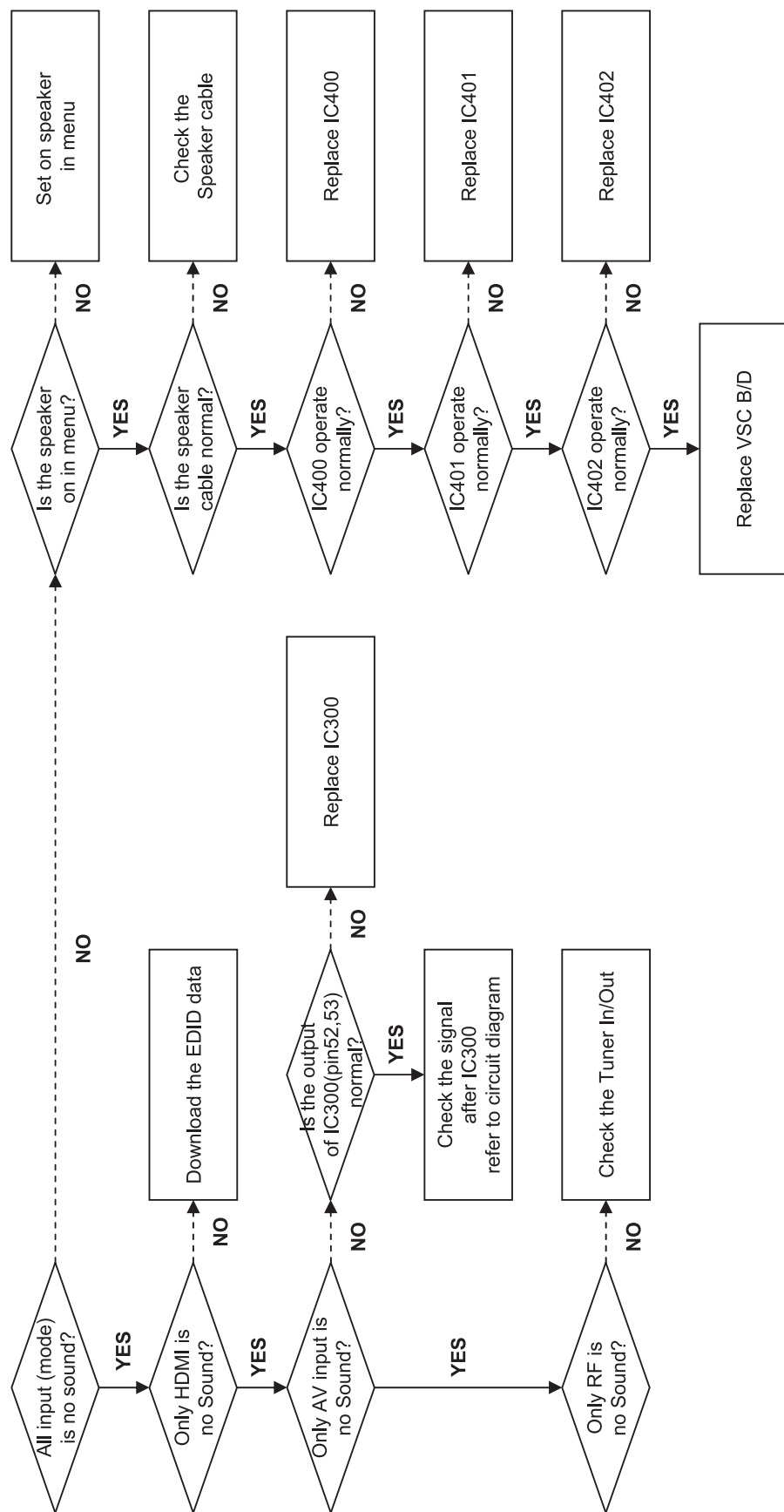
18. No Sound

Symptom

LED is White

Screen is existent, but sound isn't

Check follow



19. HDMI mode

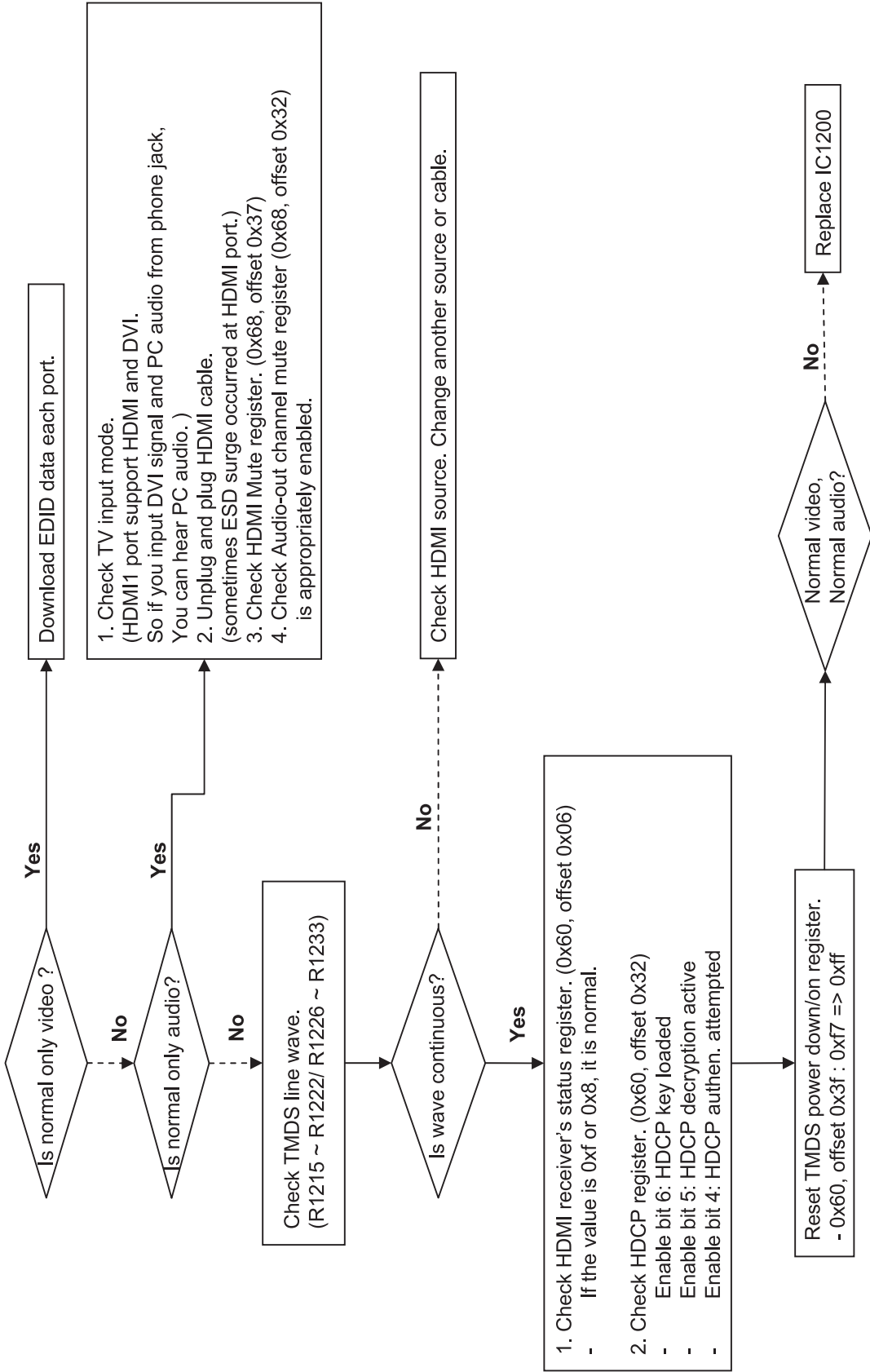
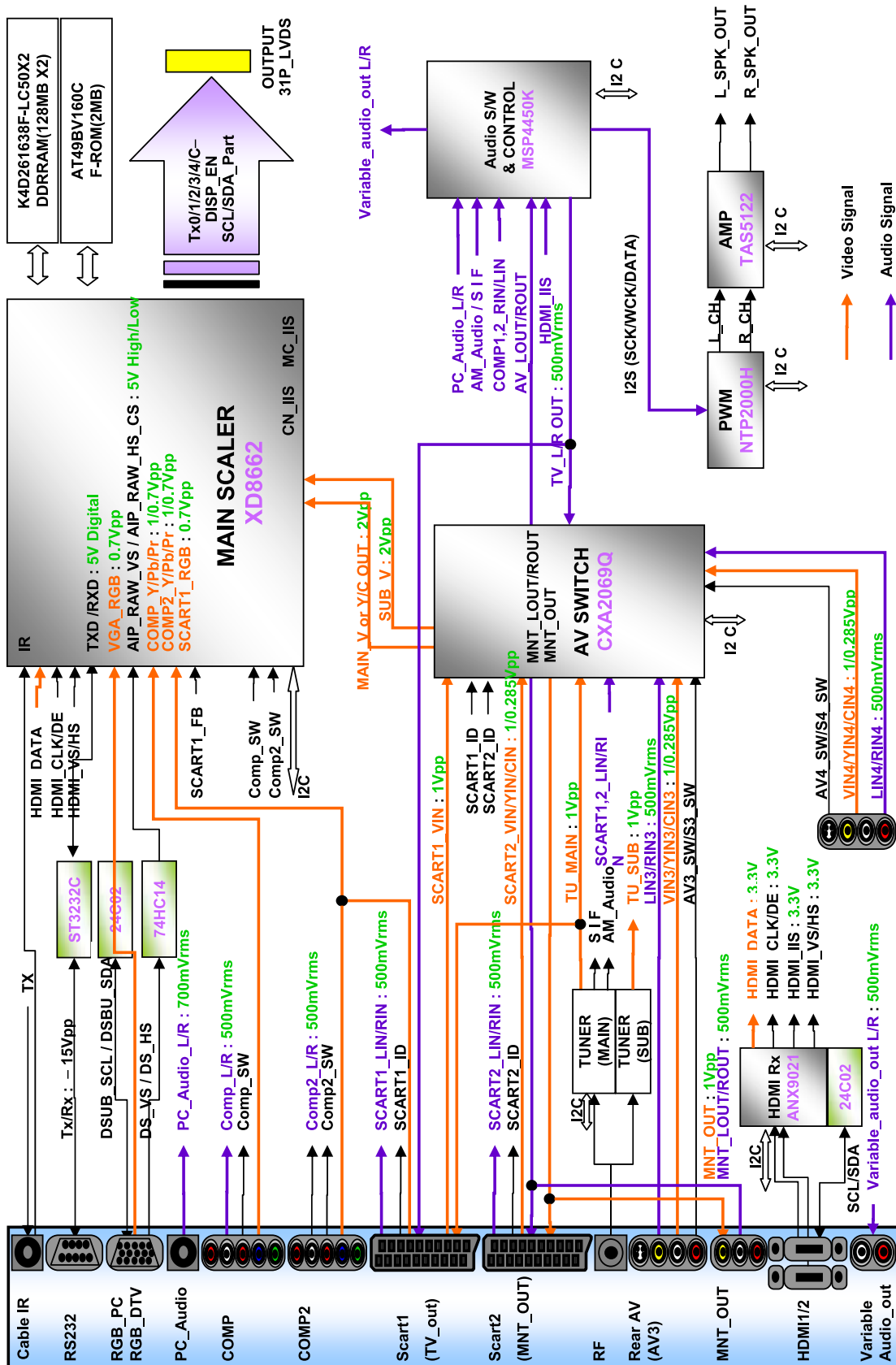
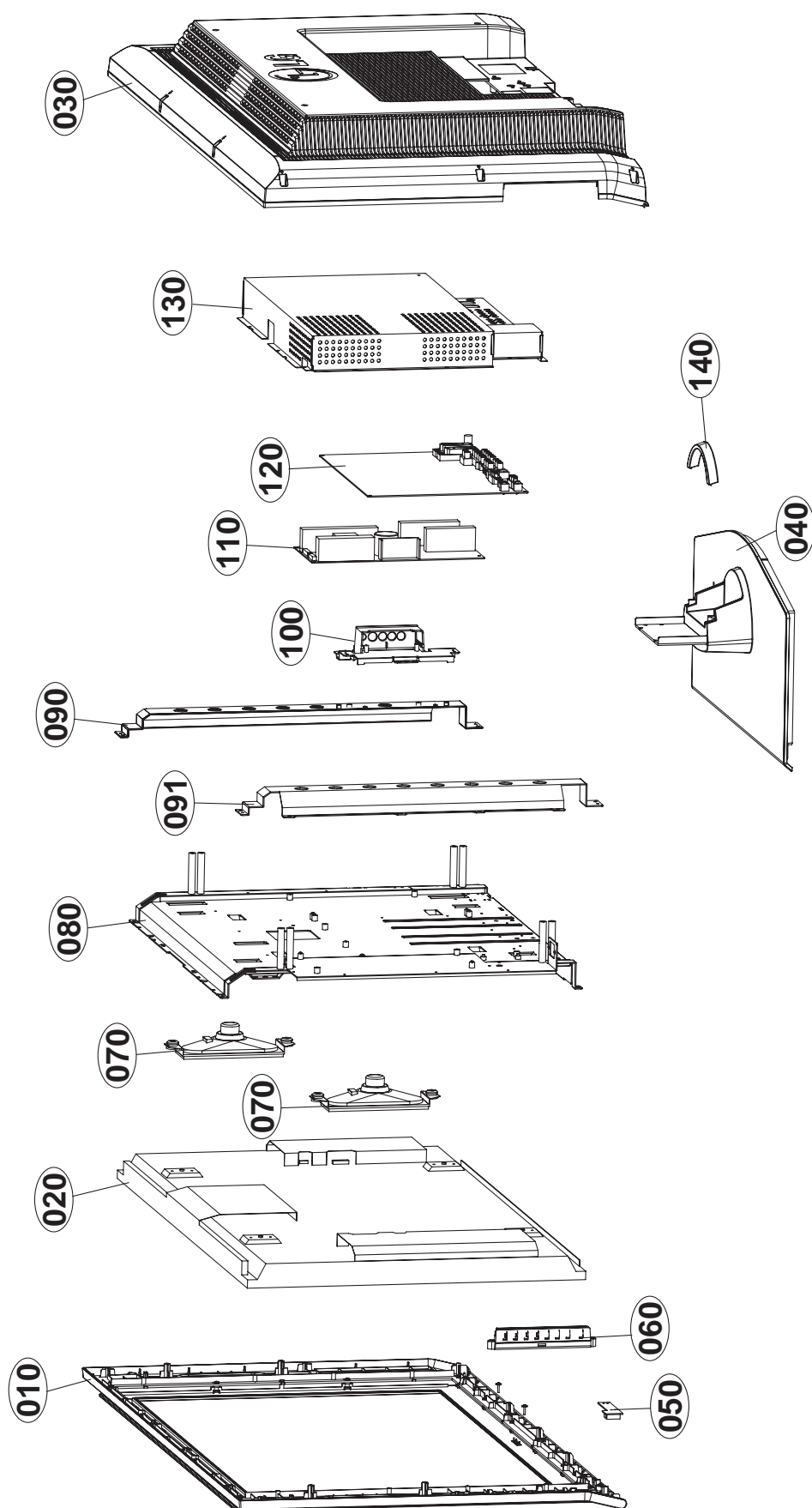







DIAGRAMA DE BLOQUE



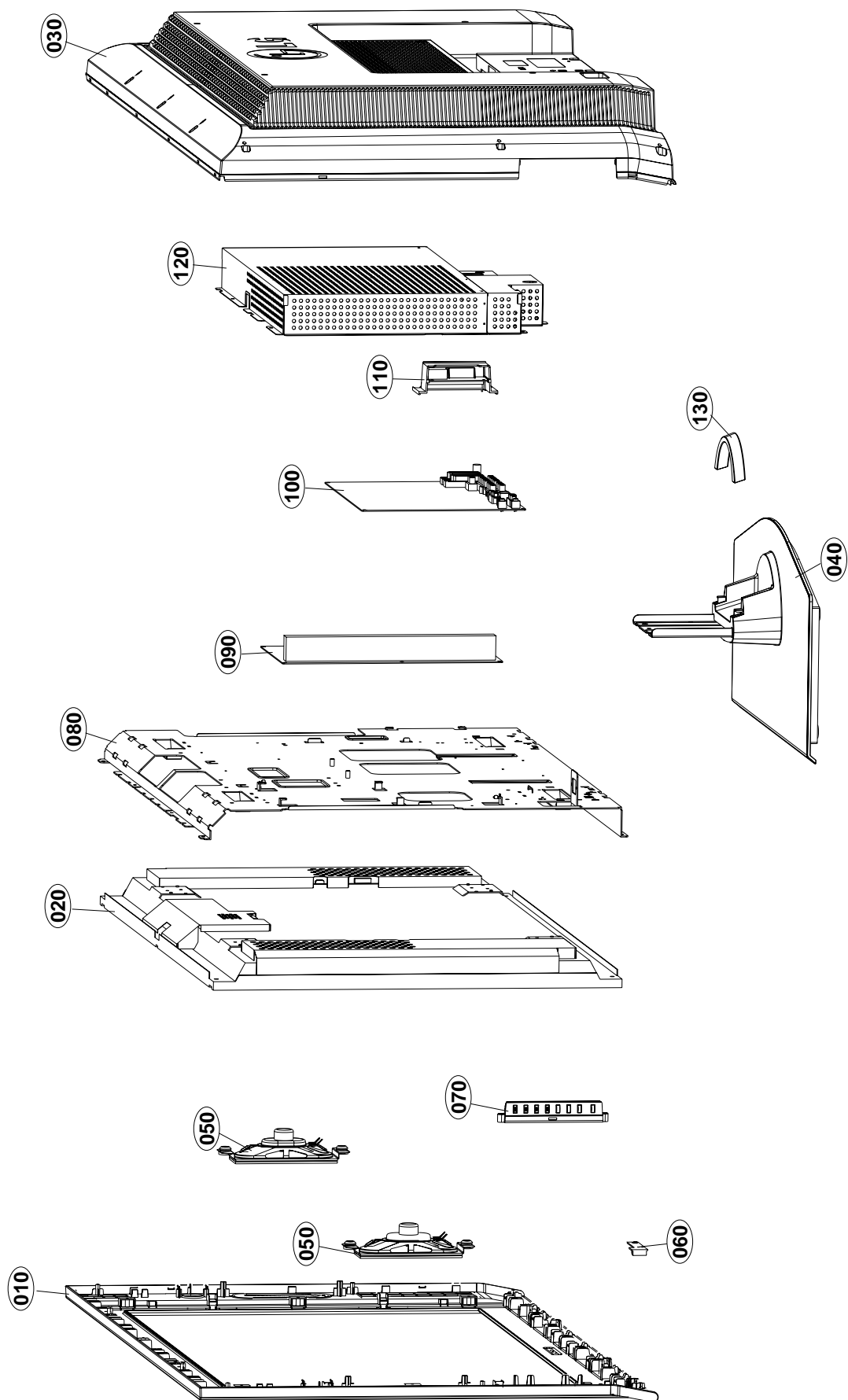
VISTA EN DESPIECE (37LC3R)








LISTA DE PARTES EN DESPIECE(37LC3R)

No.	PART NO.	DESCRIPTION
010	 ACQ30233803	Cover Assembly, 37LC3R-MH LP62A 37" 37LC3R-MH cabinet assy
	ACQ30233804	Cover Assembly, 37LC3R-MH LP62A 37" 37LC3R-MH cabinet assy(C/SKD)
020	 EAJ32763501	LCD,Module-TFT, LC370WX1-SL15 WXGA 37.0INCH 1366X768 500CD COLOR 72% 16/9 800:1 A-TW Pol. P6 LG PHILIPS LCD
	or 6304FLP360A	LCD,Module-TFT, LC370WX1-SL11 DRIVER 37INCH 1365X768 500CD COLOR 72% 16/9 800:1 - LG PHILIPS LCD
	or 6304FLP367A	LCD,Module-TFT, LC370WX1-SL13 DRIVER 37INCH 1365X768 500CD COLOR 72% 16/9 700:1 - LG PHILIPS LCD
030	 ACQ30233901	Cover Assembly, 37LC3R-ZH LP61A 37" 37LC3R-ZH back cover assy
	ACQ30233905	Cover Assembly, 37LC3R-MH LP61A 37" 37LC3R-MH back cover assy (SET, SVC CALL LABEL)
	ACQ30233902	Cover Assembly, 37LC3R-ZH LP61A 37" 37LC3R-ZH back cover assy(C/SKD)
040	 ACQ30234001	Cover Assembly, 37LC3R-ZH LP61A 37" 37LC3R-ZH stand assy
	ACQ30234002	Cover Assembly, 37LC3R-ZH LP61A 37" 37LC3R-ZH stand assy(C/SKD)
050	EBR30475201	PCB Assembly, SUB T.T LP62A 37LC2R-ZH ALL - PREAMP + LED
060	EBR30695301	PCB Assembly, SUB S.T LP62A 37LC3R-ZH EKQH .- CONTROL
070	EAB30829201	Speaker,Woofers, g1560102 ND 15W 8OHM 82DB 100HZ 193 X 57 X 50 LUG MACOM
080	4950TKA361Y	Plate, PRESS SBHG1-A 1.6 METAL SBHG-A 37LC3R-ZH
	4950TKA361Z	Plate, PRESS SBHG-A 1.6 METAL SBHG-A 37LC3R-ZH
090	49509K0024K	Plate, PRESS H-GI 1.6 SUPPORTER SPC 37LC3 side frame(LPL, SET)
	49509K0024L	Plate, PRESS SBHGI 1.6mm FRAME SBHG-A 37LC3R-MH side frame(LEFT), FOR LGEMX, C/SKD
091	49509K0023C	Plate, PRESS SBHG T1.6 SIDE SUPPORTER RIGHT FOR 37LC2
	49509K0023D	Plate, SIDE SUPPORTER RIGHT FOR 37LC2(C/SKD)
100	EBR31397802	PCB Assembly, SUB S.T LN61A 37LC3R-MH ALALLAX SIDE A/V TOTAL
110	 6709900016D	SMPS,AC/DC, LGLP2637HEP(37INCH) 90VTO264V 215W 47T063HZ UL/CSA/SEMCO YY / AT / HE YUYANG TELECOM CO.,LTD
	or 6709900016B	Power Supply Assembly, FREE H3/E2 LCD MODEL LCD LG ELECTRONICS LB LC 37INCH
120	EBU31352101	Main Total Assembly, 37LC3R-MH BRAND LN62A
130	4950TKA362Y	Plate, PRESS SBHG1 0.8 SHIELD SPC 37LC3R-MH
140	4810900107A	Bracket, COVER 37LC3 LP62A ABS, HF-380 CABLE MANAGEMANET

VISTA EN DESPIECE(42LC3R)



LISTA DE PARTES EN DESPIECE(42LC3R)

No.	PART NO.	DESCRIPTION
010	 ACQ30234902	Cover Assembly, 42LC3R-MH LP62A 42" 42LC3R-MH cabinet assy
	ACQ30234909	Cover Assembly, 42LC3R-MH LP61A 42" 42LC3R-MH cabinet assy(V0)
	ACQ30234905	Cover Assembly, 42LC3R-MH LP61A 42" 42LC3R-MH cabinet assy(C/SKD), ASSEMBLY
020	 EAJ31412701	LCD,Module-TFT, LC420W02-SLA2 WXGA 42INCH 1366X768 500CD COLOR 72% 16/9 800vs1 P7(3.4phi) LG PHILIPS LCD
	or 6304FLP363A	LCD,Module-TFT, LC420W02-SLA1 DRIVER 42INCH 1365X768 500CD COLOR 72% 16/9 800:1 - LG PHILIPS LCD
	EAJ36452201	LCD,Module-TFT, LC420WX5 SLA1 WXGA 42INCH 1366X768 450CD COLOR/MONO 72% 16/9 1000:1 LPL 42"LCD Module (ZERO-RT Pol) LG PHILIPS LCD .
030	 ACQ30235301	Cover Assembly, 42LC3R-ZH LP61A 42" 42LC3R-ZH back cover assy
	ACQ30235304	Cover Assembly, 42LC3R-MH LP61A 42" 42LC3R-MH back cover assy ASSEMBLY
	ACQ30235302	Cover Assembly, 42LC3DQ-NF LP61A 42" 42LC3DQ-NF BACKCOVER ASSY,
	ACQ30235303	Cover Assembly, 42LC3R-ZH LP61A 42" 42LC3R-ZH BACK COVER ASSY(C/SKD)
040	 ACQ30235401	Cover Assembly, 42LC3R-ZH LP61A 42" STAND ASSY
	ACQ30235403	Cover Assembly, 42LC3R-ZH LP61A 42" 42LC3R-ZH STAND ASSY(C/SKD)
050	EAB30829201	Speaker,Woofer, g1560102 ND 15W 8OHM 82DB 100HZ 193 X 57 X 50 LUG MACOM
060	EBR30475201	PCB Assembly, SUB T.T LP62A 37LC2R-ZH ALL - PREAMP + LED
070	EBR32231701	PCB Assembly, SUB T.T LP62A 42LC3R-ZH_SKD_CONTROL ASS'Y . H3-H LCD TV_CONTROL
080	AGU31055001	Plate Assembly, ASSY METAL FRAME ASSY
	AGU31055004	Plate Assembly, ASSY 42LC3R-ZH METAL FRAME ASSY(LGEWR LOCAL)
090	 6709900017C	SMPS, YP4201-HDMI 90VTO264V 280W 47TO63HZ UL/CSA/TUV/SEMKO 42" LCD YUYANG TELECOM CO.,LTD
100	EBU31352201	Main Total Assembly, 42LC3R-MH BRAND LN62A
110	EBR31397801	PCB Assembly, SUB S.T LN61A 37LC3R-MH ALALLAX SIDE A/V TOTAL
120	49509K0173P	Plate, PRESS EGI 0.8 SHIELD SBHG-A 42LC3R-MH REAR SHIELD
130	4810900108A	Bracket, COVER 42LC3 LP62A ABS, HF-380 CABLE MANAGEMENT

LISTA DE PARTES DE REPUESTO

DATE: 2007. 01. 03.

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
MAIN BOARD		
CAPACITORS		
C1001	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1005	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1007	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1009	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1012	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1014	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V
C1016	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1019	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V
C1020	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1022	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1023	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1048	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1049	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1050	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1051	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1053	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1054	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1055	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V
C1056	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V
C1062	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1063	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1064	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1065	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1067	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1069	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1070	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1072	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1084	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1085	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1086	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1087	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1088	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1089	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1092	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1101	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1107	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1109	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1110	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V
C1111	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1113	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20% 16V
C1128	0CE477WF6DC	MVK10TP16VC470M 470uF 20% 16V
C1129	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1130	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1131	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1132	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1133	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1135	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C1137	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1146	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1147	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1148	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1149	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1151	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1152	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20% 16V
C1157	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1158	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16V 8
C1207	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16
C1222	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C1226	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C1244	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C1403	0CH8106J691	MVK5.0TP35VC10M 10uF 20% 35V 2
C1460	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C1468	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C148	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V
C149	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V
C174	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C175	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C1814	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C1826	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16
C211	0CE477SF6DC	VMV477M016S0ANG030 470uF 20% 1
C213	0CE477SF6DC	VMV477M016S0ANG030 470uF 20% 1
C215	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C224	0CE477SF6DC	VMV477M016S0ANG030 470uF 20% 1
C227	0CZZTAT006D	RV2-16V101MSU-R 100uF 20% 16V
C314	0CZZTAT006D	RV2-16V101MSU-R 100uF 20% 16V
C316	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C317	0CZZTAT006D	RV2-16V101MSU-R 100uF 20% 16V
C318	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16
C349	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16
C351	0CE105SK6DC	VMV105M050S0ANB010 1uF 20% 50V
C354	0CE105SK6DC	VMV105M050S0ANB010 1uF 20% 50V
C401	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16
C405	0CZZTAT006D	RV2-16V101MSU-R 100uF 20% 16V
C409	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C412	0CE335SK6DC	VMV335M050S0ANB010 3.3uF 20% 5
C432	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C446	0CE335SK6DC	VMV335M050S0ANB010 3.3uF 20% 5
C451	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C452	0CE106SH6DC	VMV106M025S0ANB010 10uF 20% 25
C463	0CE475SK6DC	VMV475M050S0ANB010 4.7uF 20% 5
C464	0CE475SK6DC	VMV475M050S0ANB010 4.7uF 20% 5
C466	0CE475SK6DC	VMV475M050S0ANB010 4.7uF 20% 5
C467	0CE475SK6DC	VMV475M050S0ANB010 4.7uF 20% 5
C512	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16
C611	0CZZTAT006D	RV2-16V101MSU-R 100uF 20% 16V
C834	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C835	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C836	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C837	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C838	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C839	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C840	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C841	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C842	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C853	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C855	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C886	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C898	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C901	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C904	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C905	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C930	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C943	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C950	0CE226SF6DC	VMV226M016S0ANB010 22uF 20% 16
C1813	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16V 1
C1031	0CE476WK6DC	MVK8.0TP50VC47M 47uF 20% 50V 1
C1201	0CE476SF6DC	VMV476M016S0ANC010 47uF 20% 16
C210	0CE477SF6DC	VMV477M016S0ANG030 470uF 20% 1
C237	0CE227SF6DC	MVG6.3TP16VC220M 220uF 20% 16V
C1108	0CE477EK618	KMG5.0TP50VB470M 470uF 20% 50V
C1112	0CE477EK618	KMG5.0TP50VB470M 470uF 20% 50V
C1428	0CE477EK618	KMG5.0TP50VB470M 470uF 20% 50V
C1446	0CE477EK618	KMG5.0TP50VB470M 470uF 20% 50V
C1003	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C1026	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1029	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1033	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1034	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1036	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1037	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1041	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1071	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1117	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1118	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1126	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1127	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1223	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0
C1224	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1225	0CC180CK41A	C1608C0G1H180JT 18pF 5% 50V C0
C1228	0CK103CK51A	0603B103K500CT 10nF 10% 50V Y5
C1405	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1419	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50V X
C1420	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50V X
C1421	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50V X
C1422	0CK333CK56A	C1608X7R1H333KT 33nF 10% 50V X
C1455	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1456	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1457	0CK105DF64A	0805F105Z160CT 1uF -20TO+80% 1
C1458	0CK105DF64A	0805F105Z160CT 1uF -20TO+80% 1
C1459	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R

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C1474	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G
C1811	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1851	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C234	0CC271CK41A	C1608C0G1H271JT 270pF 5% 50V C
C312	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C313	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C319	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C321	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C322	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C326	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C327	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C328	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C329	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C330	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C331	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C332	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C333	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C334	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C335	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C336	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C337	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C338	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C339	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C340	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C341	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C342	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C343	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C344	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C345	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C346	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C347	0CK225DFK4A	C2012Y5V1C225MT 2.2uF 20% 16V
C355	0CK821CK56A	C1608X7R1H821KT 820pF 10% 50V
C357	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C402	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C403	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C411	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C414	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0
C416	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C428	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C429	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C430	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C431	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C433	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C435	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C438	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C439	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C441	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C442	0CK474CH94A	0603F474Z250CT 470nF -20TO+80%
C457	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V
C458	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V
C459	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V
C462	0CK682CK51A	C1608Y5P1H682KT 6.8nF 10% 50V
C494	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C511	0CK104CK56A	0603B104K500CT 100nF 10% 50V X

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C1213	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1214	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1215	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1216	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1217	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1218	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1219	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1220	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1221	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1227	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1229	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1230	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1231	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1235	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1236	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1237	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1238	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1239	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1240	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1241	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1242	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1243	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1247	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1248	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1313	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1401	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1406	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1410	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1411	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1412	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1413	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1418	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1423	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1435	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1436	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1437	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1438	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1439	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1441	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1447	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1448	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1449	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1450	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1461	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1466	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1467	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C
C1469	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C147	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C1470	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G
C1473	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1475	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1476	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C150	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C151	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7

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C152	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C178	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1800	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1801	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1802	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1803	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C1804	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1805	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1806	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1807	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1808	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1809	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1810	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1812	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1815	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C1852	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C218	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C219	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0
C220	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0
C221	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C222	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C223	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C
C225	0CK273CK56A	0603B273K500CT 27nF 10% 50V X7
C226	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C229	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C231	0CK273CK56A	0603B273K500CT 27nF 10% 50V X7
C233	0CC271CK41A	C1608C0G1H271JT 270pF 5% 50V C
C315	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C320	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C348	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C350	0CC102CK41A	C1608C0G1H102JT 1nF 5% 50V C0G
C352	0CK563CK56A	C1608X7R1H563KT 56nF 10% 50V X
C353	0CK223CK56A	UMK107JB223KA-T 22nF 10% 50V X
C356	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C406	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C407	0CH5010K116	0805N1R0D500LT 1pF 0.5PF 50V C
C408	0CH5010K116	0805N1R0D500LT 1pF 0.5PF 50V C
C415	0CC560CK41A	C1608C0G1H560JT 56pF 5% 50V C0
C434	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C436	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C437	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50V C
C444	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C445	0CK471CK56A	C1608X7R1H471KT 470pF 10% 50V
C469	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C479	0CK471CK56A	C1608X7R1H471KT 470pF 10% 50V
C483	0CK471CK56A	C1608X7R1H471KT 470pF 10% 50V
C493	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C495	0CK102CK56A	0603B102K500CT 1nF 10% 50V X7R
C502	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C503	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C506	0CC120CK41A	C1608C0G1H120JT 12pF 5% 50V C0
C514	0CK104CK56A	0603B104K500CT 100nF 10% 50V X
C603	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50V C
C608	0CK104CK56A	0603B104K500CT 100nF 10% 50V X

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
C206	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C207	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0
C208	0CC680CK41A	C1608C0G1H680JT 68pF 5% 50V C0
C209	0CK103CK56A	0603B103K500CT 10nF 10% 50V X7
C228	0CC271CK41A	C1608C0G1H271JT 270pF 5% 50V C
C1426	0CF4741L438	PCMT 365 76474 470nF 5% 63V MP
C1427	0CF4741L438	PCMT 365 76474 470nF 5% 63V MP
DIODEs		
D1201	0DD184009AA	KDS184 KDS184 TP KEC - 85V - -
D1200	0DD184009AA	KDS184 KDS184 TP KEC - 85V - -
D1007	0DD200009AF	RU2M 400V 1.2V 10UA 20A 400NSE
D1008	0DD200009AF	RU2M 400V 1.2V 10UA 20A 400NSE
D300	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D500	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D501	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D502	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1000	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1001	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1002	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1004	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1005	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1006	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1100	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1101	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D1102	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D114	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D115	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4NSEC
D106	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
D107	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
D108	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
D109	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
D110	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
D111	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
D112	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
D113	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.2V
ZD501	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SO
ZD502	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SO
ZD503	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SO
ZD600	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SO
ZD400	0DZRM00248A	RLZ8.2B 8.2V 7.78TO8.19V 8OHM
ICs		
IC300	0ISO206900A	CXA2069Q 8.5TO9.5V - - 1.3W QF
IC402	0IMCRTI028C	"TAS5122DCARG4.LF 3TO3.6V_16TO2"
IC401	0IPRP00718A	NTP-2000 0.3TO5.5 0W LQFP TR 4
IC403	0IPH741400E	74HC14D 2TO6V 0.002mA SCHMITT
IC501	0IPH741400E	74HC14D 2TO6V 0.002mA SCHMITT
IC901	EAN32205201	HY5DU281622FTP-5 128MBIT 8 x 1
IC902	EAN32205201	HY5DU281622FTP-5 128MBIT 8 x 1
IC1202	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8
IC500	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8
IC802	0IMP242560A	24LC256T-I/SM 256KBIT 256KX8BI
IC1201	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 256x8

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
IC1200	0IPRP00735A	ANX9021 3.3V 60u 17MHZ TQFP TR
IC1000	0IPRPM001A	MIC39100 2.3TO26V 0 0W SOT223
IC1001	0IPMGRH001G	BA33BC0FP-E2 4.3TO16V 3.3V 1.2
IC1003	0IPMG00027A	SC156515M-1.8TR 2.2TO5.5V 1.8V
IC1004	0IPMGRH001G	BA33BC0FP-E2 4.3TO16V 3.3V 1.2
IC1005	0IPMGRH001G	BA33BC0FP-E2 4.3TO16V 3.3V 1.2
IC1100	0IPMGKE030A	KIA78R05F 6TO12V 5V 8W DPAK R/
IC1101	0IPRPM001A	MIC39100 2.3TO26V 0 0W SOT223
IC1102	0IPMG00027A	SC156515M-1.8TR 2.2TO5.5V 1.8V
IC900	0IMMRAL016D	AT49BV160C-70TU 16MBIT 2MX8BIT
IC400	0IMCRMN028C	MSP4450K-QA-D6 7.6TO8.7V_4.75T
IC600	0IPRP00009A	ICL3232CBNZ 3VTO5.5V - SSOP R/
IC301	0ISA721700C	LA7217M 4.5VTO5.5V 16.1KHZ 150
IC800	0IPRP00692C	FLI8662-LF-BC-XD 1.8VTO2.5V 19
IC1002	0IMCRFA010A	KA7809R 11.5TO24V 9V 150W DPAK
COILs & FILTERs & INDUCTORs		
L1000	6140VB0004B	LN-15A1(26UH) 26uH AC500V 5MA
L1101	6140VB0004B	LN-15A1(26UH) 26uH AC500V 5MA
L1105	6140VB0004B	LN-15A1(26UH) 26uH AC500V 5MA
L1106	6140VB0004B	LN-15A1(26UH) 26uH AC500V 5MA
L1107	6140VB0004B	LN-15A1(26UH) 26uH AC500V 5MA
L1110	6140VB0004B	LN-15A1(26UH) 26uH AC500V 5MA
L1404	6140VB0032A	DBF-1015A 15.5uH - - 10.8X19MM
L1405	6140VB0032A	DBF-1015A 15.5uH - - 10.8X19MM
L1406	6140VB0032A	DBF-1015A 15.5uH - - 10.8X19MM
L1407	6140VB0032A	DBF-1015A 15.5uH - - 10.8X19MM
AR1200	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6
AR1201	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6
AR1202	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6
AR1203	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6
AR1204	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6
AR1205	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X1.6
L1005	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1006	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1008	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1011	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1016	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1017	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1018	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1019	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1020	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1022	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1102	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1109	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1111	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1116	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L309	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L310	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L401	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L502	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L600	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L901	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L902	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
L1001	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1002	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1004	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1012	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1013	6210TCE0017	HH-1M3216-121JT 120OHM 3.2X1.6
L1014	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1015	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1021	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1103	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1108	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1113	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1114	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1115	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L115	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L116	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L119	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L1201	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1202	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1203	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L125	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L1858	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1859	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L203	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L205	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L308	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L400	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L403	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L500	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L501	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L503	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L903	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
R1471	0LCML00003B	MLB-201209-0120P-N2 120OHM 2X1
R1472	0LCML00003B	MLB-201209-0120P-N2 120OHM 2X1
R1473	0LCML00003B	MLB-201209-0120P-N2 120OHM 2X1
R1474	0LCML00003B	MLB-201209-0120P-N2 120OHM 2X1
L117	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L118	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L124	6200JB8010L	MLB-201209-1000L-N2 1000OHM 2X
L1819	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X0.8
L1820	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X0.8
L1821	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X0.8
L1822	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X0.8
L1823	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X0.8
L801	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L1200	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L201	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X1.6
L207	0LC6461201A	D75C-646CY-121M=P3 120UH 20% -
L120	0LCML00020G	MLI-201209-3R3K 3.3UH 10% 0V 3
L121	0LCML00020G	MLI-201209-3R3K 3.3UH 10% 0V 3
L122	0LCML00020G	MLI-201209-3R3K 3.3UH 10% 0V 3
L123	0LCML00020G	MLI-201209-3R3K 3.3UH 10% 0V 3
L206	0LCML00020G	MLI-201209-3R3K 3.3UH 10% 0V 3
L311	0LCML00020C	MLI-201212-100K 10UH 10% - 15M
L407	0LCML00020C	MLI-201212-100K 10UH 10% - 15M

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
L408	0LCML00020C	MLI-201212-100K 10UH 10% - 15M
L204	0LCML00020G	MLI-201209-3R3K 3.3UH 10% 0V 3
TRANSISTORS & FETs		
IC1205	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V - 5
IC1206	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V - 5
IC1203	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V - 5
IC1204	0TR830009BA	BSS83 N-CHANNEL MOSFET 10V - 5
IC1006	0TF492509AA	SI4925DY P-CHANNEL -30V +-20V
Q1000	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q1001	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q1004	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q1005	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q1201	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q212	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q300	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q301	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q302	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q303	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q304	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q400	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q401	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q402	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q404	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q408	0TR102009AM	KRA102S PNP -30V 0V -50V -0.1A
Q410	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q411	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q600	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q105	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q106	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q107	0TR102009AM	KRA102S PNP -30V 0V -50V -0.1A
Q201	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q202	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50
Q203	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q204	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50
Q205	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q206	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50
Q207	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50
Q305	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50
Q403	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q405	0TR102009AM	KRA102S PNP -30V 0V -50V -0.1A
Q407	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q409	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q801	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50
Q800	0TR102009AJ	KRC102S NPN 30V 0V 50V 100MA 5
Q1006	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q1200	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q211	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q200	0TR150400BA	2SA1504S(ASY) PNP -5V -50V -50
RESISTORS		
AR800	0RJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W 4
AR801	0RJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W 4
AR802	0RJ0332C687	RCA86TRJ33R0 330OHM 5% 1/16W 4

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
AR803	0RJ0332C687	RCA86TRJ33R0 33OHM 5% 1/16W 4
AR804	0RJ0332C687	RCA86TRJ33R0 33OHM 5% 1/16W 4
AR805	0RJ0332C687	RCA86TRJ33R0 33OHM 5% 1/16W 4
AR806	0RJ0332C687	RCA86TRJ33R0 33OHM 5% 1/16W 4
AR807	0RJ0332C687	RCA86TRJ33R0 33OHM 5% 1/16W 4
R226	0RD0331H609	RD-92T1J3R30 3.3OHM 5% 1/2W 9.
L1853	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L1856	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1003	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1005	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W 1
R1010	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1012	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1015	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1016	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1017	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1019	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1020	0RJ3901D677	MCR03EZPJ392 3.9KOHM 5% 1/10W
R1021	0RJ7501D677	MCR03EZPJ752 7.5KOHM 5% 1/10W
R1100	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1200	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1206	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1210	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1215	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1216	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1217	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1218	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1219	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1220	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1221	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1222	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W 16
R1237	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1238	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1251	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1
R1253	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1
R1257	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1258	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1261	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1263	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1264	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1265	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1266	0RJ1004D677	MCR03EZPJ105 1MOHM 5% 1/10W 16
R1267	0RJ1820D477	MCR03EZPF1820 182OHM 1% 1/10W
R1268	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1269	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1272	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1274	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1275	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1276	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1279	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1280	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R1406	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W 160
R1413	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1
R1414	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1
R1415	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1416	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1
R1438	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1439	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1440	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1441	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1442	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1447	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1450	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1451	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1452	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R1458	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1460	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1461	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1463	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1465	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1466	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1469	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1802	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1803	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1807	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1808	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1814	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1815	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1816	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1817	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1818	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1819	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1820	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1821	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1822	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1823	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1825	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1866	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1867	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1889	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R247	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R306	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R311	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R312	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R313	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R314	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R315	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R316	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R317	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R318	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R319	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R320	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R322	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W
R323	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R324	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R326	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R329	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R330	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R333	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R334	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R335	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R336	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R337	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R338	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R339	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R340	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R341	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R342	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R343	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R344	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R345	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R346	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R347	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R348	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R349	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R350	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R352	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R354	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R355	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R356	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R357	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R358	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R359	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R360	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/10W
R361	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R362	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R371	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10W 1
R372	0RJ0472D677	MCR03EZPJ470 47OHM 5% 1/10W 16
R376	0RJ3901D677	MCR03EZPJ392 3.9KOHM 5% 1/10W
R400	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R410	0RJ0622D677	MCR03EZPJ620 62OHM 5% 1/10W 16
R411	0RJ2402D677	MCR03EZPJ243 24KOHM 5% 1/10W 1
R412	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10W
R413	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1
R425	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R426	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R427	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R428	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R429	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R430	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R431	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R432	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R436	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R437	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R438	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R444	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R451	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R452	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R453	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R454	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R458	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R460	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R461	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R462	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R481	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R482	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R494	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R516	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R517	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R518	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R520	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R521	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R524	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R525	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R526	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R527	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R536	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R537	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R600	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R601	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R602	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R603	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R607	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R608	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R609	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R619	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R621	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R800	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R810	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R814	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/10W
R818	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/10W
R819	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R821	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W
R829	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R830	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R833	0RH0202D622	MCR10EZHJ200 20OHM 5% 1/8W 201
R835	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 16
R836	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 16
R837	0RH0202D622	MCR10EZHJ200 20OHM 5% 1/8W 201
R839	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 16
R840	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 16
R841	0RH0202D622	MCR10EZHJ200 20OHM 5% 1/8W 201
R844	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 16
R845	0RH0202D622	MCR10EZHJ200 20OHM 5% 1/8W 201
R846	0RH0202D622	MCR10EZHJ200 20OHM 5% 1/8W 201
R847	0RH0202D622	MCR10EZHJ200 20OHM 5% 1/8W 201
R848	0RH0202D622	MCR10EZHJ200 20OHM 5% 1/8W 201
R849	0RJ0562D677	MCR03EZPJ560 56OHM 5% 1/10W 16
R852	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R853	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R861	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R862	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R863	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R864	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R867	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R868	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R870	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R871	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R872	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R873	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R874	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R878	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R879	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R880	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R881	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R882	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R883	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R884	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R885	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R889	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R890	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R891	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R892	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R893	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R894	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R905	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R906	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R907	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R909	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R910	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R911	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R912	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R917	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R918	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R921	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R922	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R937	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R938	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R940	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
L126	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
L127	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
L128	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
L1852	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L1854	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L1855	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L1857	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L409	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L410	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L411	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
L412	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1001	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1002	0RJ1801D677	MCR03EZPJ182 1.8KOHM 5% 1/10W
R1008	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1013	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1101	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R1102	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1103	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1104	0RJ2002D677	MCR03EZPJ203. 20KOHM 5% 1/10W
R1213	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1236	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1240	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1241	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1
R1250	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1252	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1254	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1255	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1260	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1262	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1273	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1278	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1403	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1
R1404	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1
R1407	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1
R1409	0RJ0221D677	MCR03EZPJ2R2 2.2OHM 5% 1/10W 1
R1417	0RJ0331D677	MCR03EZPJ3R3 3.3OHM 5% 1/10W 1
R1423	0RJ0331D677	MCR03EZPJ3R3 3.3OHM 5% 1/10W 1
R1424	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1425	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1426	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1427	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1432	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W 160
R1433	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W 160
R1434	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W 160
R1435	0RJ0101D677	MCR03EZPJ1R0 1OHM 5% 1/10W 160
R1448	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1449	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/10W
R1459	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1470	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R168	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R169	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R170	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R171	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R172	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R173	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R180	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R181	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R182	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R183	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R1830	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R184	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R1842	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1843	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1844	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1845	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
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R1847	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
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R1851	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1852	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1853	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1854	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1855	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R1856	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16

LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R1857	0RJ0332D677	MCR03EZPJ330 330OHM 5% 1/10W 16
R186	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1864	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1865	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1868	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1869	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1870	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1873	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1874	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1875	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1878	0RJ1201D677	MCR03EZPJ122 1.2KOHM 5% 1/10W
R1879	0RJ0512D677	MCR03EZPJ510 510OHM 5% 1/10W 16
R188	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1881	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R189	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1901	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1902	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R198	0RJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W 16
R199	0RJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W 16
R208	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R209	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W
R210	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R2100	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R2101	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R2102	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R2105	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R2106	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R2108	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R2109	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R211	0RJ0222D677	MCR03EZPJ220 220OHM 5% 1/10W 16
R2112	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R2113	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R2114	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R2115	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R2116	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R212	0RJ0102D677	MCR03EZPJ100 100OHM 5% 1/10W 16
R213	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R214	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R215	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1
R216	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1
R217	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R218	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1
R219	0RJ0822D677	MCR03EZPJ820 820OHM 5% 1/10W 16
R220	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R221	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R222	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R223	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R224	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R225	0RJ2000D677	MCR03EZPJ201 200OHM 5% 1/10W 1
R227	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R228	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R229	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R230	0RJ1800D677	MCR03EZPJ181 180OHM 5% 1/10W 1
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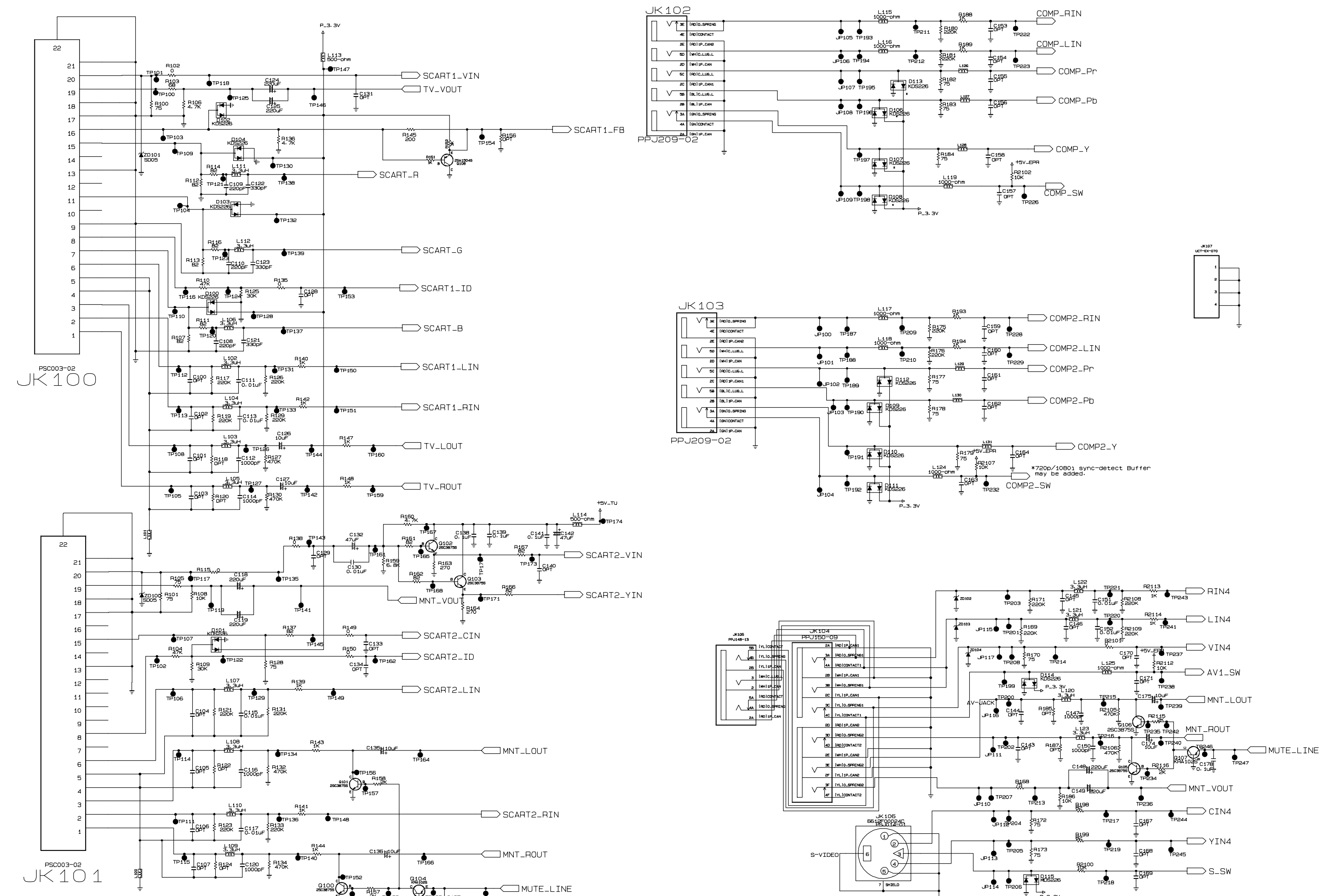
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
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R233	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R239	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/10W
R245	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R248	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R2811	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R2812	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R305	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1
R309	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R310	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R327	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R328	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R363	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R364	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10W 1
R365	0RJ1503D677	MCR03EZPJ154 150KOHM 5% 1/10W
R366	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 16
R367	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 16
R368	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 16
R369	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R370	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R375	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R406	0RJ0432D677	MCR03EZPJ430 430OHM 5% 1/10W 16
R409	0RJ0432D677	MCR03EZPJ430 430OHM 5% 1/10W 16
R455	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R456	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R457	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R459	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R463	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R464	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R465	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10W
R466	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R467	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10W
R469	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R474	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R475	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R476	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R477	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/10W
R478	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R479	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R484	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R486	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R492	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R493	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R500	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R501	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W
R502	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R503	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R504	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 16
R505	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 16
R506	0RJ0752D677	MCR03EZPJ750 750OHM 5% 1/10W 16
R507	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R508	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R509	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R510	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160



LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
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R513	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R514	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R515	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R519	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R522	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R523	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R531	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R532	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R533	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R534	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R540	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R541	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R542	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1
R544	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R604	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R605	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1
R606	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R809	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R834	0RH0202D622	MCR10EZHZJ200 20OHM 5% 1/8W 201
R838	0RH0202D622	MCR10EZHZJ200 20OHM 5% 1/8W 201
R842	0RH0202D622	MCR10EZHZJ200 20OHM 5% 1/8W 201
R851	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R854	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R855	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R857	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R859	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R860	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R865	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R866	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R875	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R876	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R877	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R886	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R887	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R888	0RJ0332D677	MCR03EZPJ330 33OHM 5% 1/10W 16
R900	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R904	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R908	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W 16
R914	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R915	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R919	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W 1
R920	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10W 1
R923	0RJ1200D677	MCR03EZPJ121 120OHM 5% 1/10W 1
R924	0RJ1200D677	MCR03EZPJ121 120OHM 5% 1/10W 1
R934	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R824	0RH0202D622	MCR10EZHZJ200 20OHM 5% 1/8W 201
R826	0RH0202D622	MCR10EZHZJ200 20OHM 5% 1/8W 201
R828	0RH0202D622	MCR10EZHZJ200 20OHM 5% 1/8W 201
L129	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
L130	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
L131	0RH0000D622	MCR10EZHZJ000 0OHM 5% 1/8W 2012
R175	0RJ2203D677	MCR03EZPJ224 220KOHM 5% 1/10W

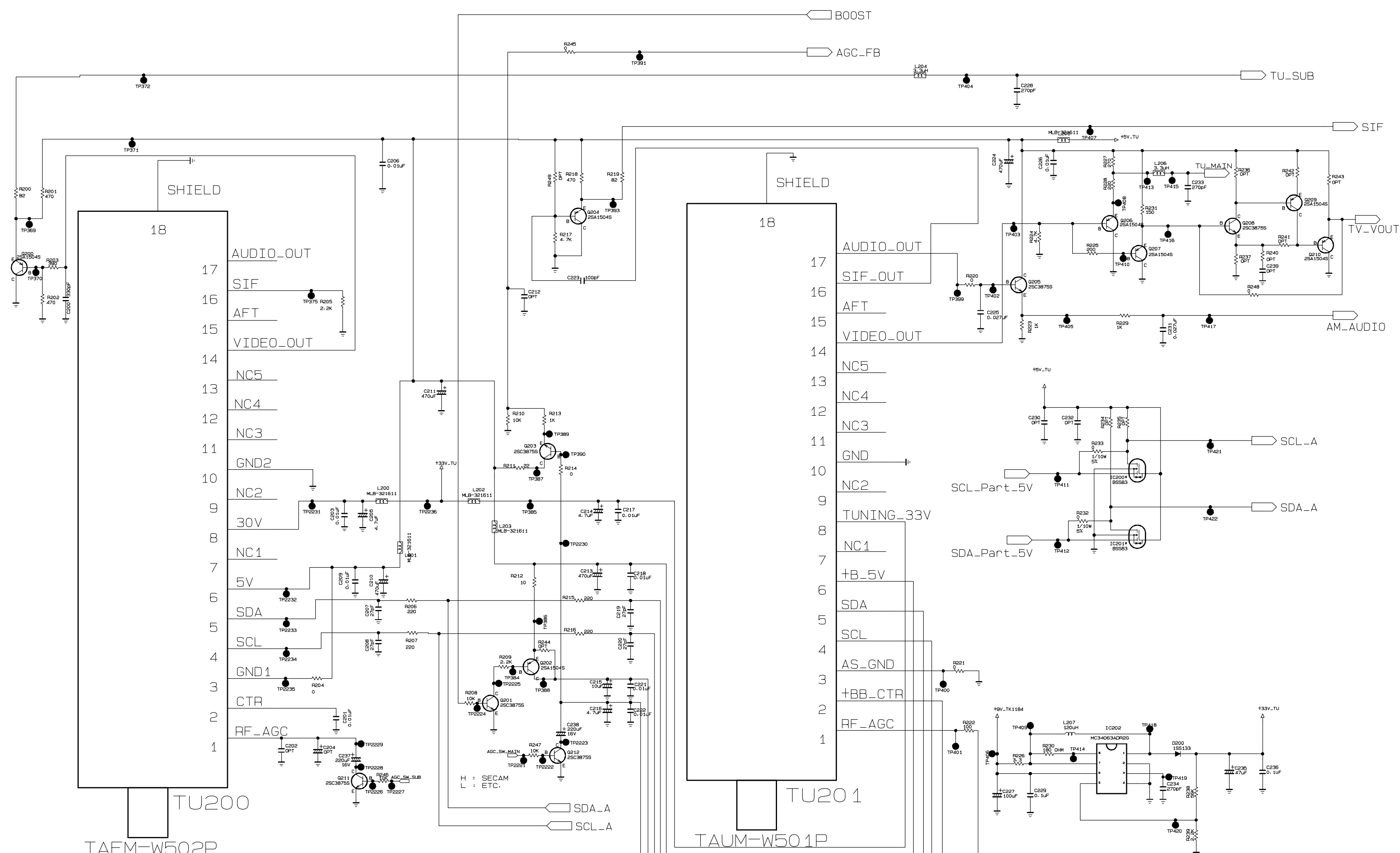
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R179	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W 16
R193	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R194	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R2107	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R2803	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R2800	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R2801	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R2802	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R820	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R822	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1022	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1023	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1829	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1007	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1-37LC3R
R1007	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W-42LC3R
R1810	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W
R1896	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1897	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R811	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R856	0RJ1501D677	MCR03EZPJ152 1.5KOHM 5% 1/10W-37LC3R
R856	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/10W-42LC3R
R858	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1203	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R1214	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1234	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1
R1235	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10W 1
R1246	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1247	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1201	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R1207	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1208	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R1209	0RJ2001D677	MCR03EZPJ202 2KOHM 5% 1/10W 16
R1223	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1224	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10W 1
R1226	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 16
R1227	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 16
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R1230	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 16
R1231	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 16
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R1233	0RJ0122D677	MCR03EZPJ120 12OHM 5% 1/10W 16
R1248	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1
R1249	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10W 1
R246	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10W 1
R200	0RJ0822D677	MCR03EZPJ820 82OHM 5% 1/10W 16
R201	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1
R202	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10W 1
R203	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10W 1
R204	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
R206	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1



LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R207	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10W 1
R1828	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W 160
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X1200	6202TST001H	SX-1 27MHZ 30PPM 27MHZ 30PPM 2
X800	6212AB2015J	HC-49SM 19.66080HZ 19.6608HZ 3
X400	156-A02M	HC-49/U 18.432MHZ 30PPM(BUBANG
D1003	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.8V
D1103	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.8V
X300	166-E02F	CSBLA500KECZF09-B0 500KHZ 2KHz
SW800	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A HO
SW900	6600VR1004A	SKHMPWE010 1C1P 12VDC 0.05A HO
TU200	6700NF0025C	TAFV-H303P NTSC 1MHZTO1MHZ 5V
TU201	6700NF0025A	TAUV-H301P NTSC-M 55.25MHZTO86
PREAMP & LED BOARD		
C200	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C
C201	0CH5330K416	C2012C0G1H330JT 33pF 5% 50V C0
C202	0CE476VF6DC	VGv476M016S0ANE010 47uF 20% 16
C203	0CE476VF6DC	VGv476M016S0ANE010 47uF 20% 16
C204	0CE476VF6DC	VGv476M016S0ANE010 47uF 20% 16
L200	0LC1032101A	FI-C3216-103KJT 10UH 10% - 50M
Q200	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q201	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
Q202	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50V 1
R200	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
R201	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
R202	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 20
R203	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
R204	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 20
R205	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
R206	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
R207	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W 16
R208	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 20
D200	0DLAU0410AA	SAW5670 ROUND 5mM AMBER/WHITE
IC201	6712000013A	TSOP4438SO1 4.5TO5.5V 1.5MA 38
CONTROL BOARD		
SW101	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
SW102	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
SW103	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
SW104	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
SW105	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
SW106	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
SW107	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
SW108	140-313A	THVV501BBC 1C1P 12VDC 0.05A HO
R101	0RH1302D622	MCR10EZHJ133 13KOHM 5% 1/8W 20
R102	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8W 2
R103	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8W 2
R104	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
R105	0RH1302D622	MCR10EZHJ133 13KOHM 5% 1/8W 20
R106	0RH4701D622	MCR10EZHJ472 4.7KOHM 5% 1/8W 2
R107	0RH1501D622	MCR10EZHJ152 1.5KOHM 5% 1/8W 2

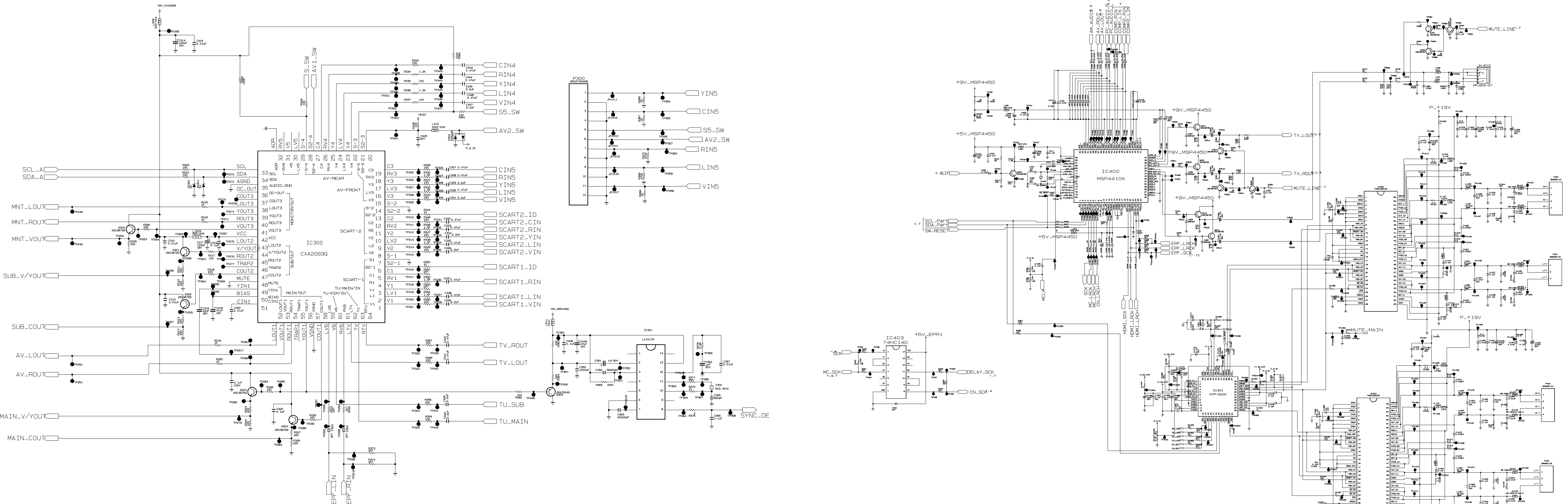
LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
R108	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
ZD100	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SO
ZD101	0DR050008AA	SD05.TC - 6V 14.5V 24A 350W SO
SIDE A/V BOARD		
C101	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C
C102	0CH5101K416	C2012C0G1H101JT 100pF 5% 50V C
R104	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2012
R105	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 20
R106	0RH4700D622	MCR10EZHJ471 470OHM 5% 1/8W 20






THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILM AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.



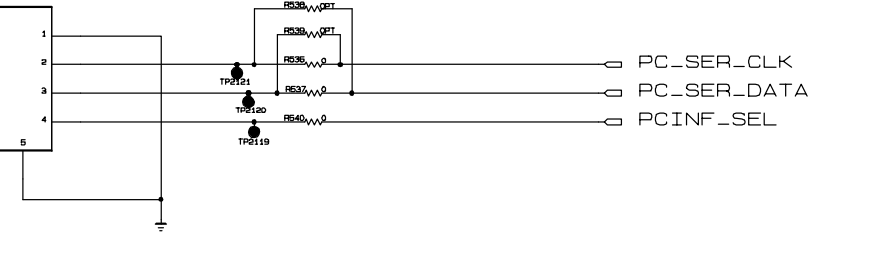
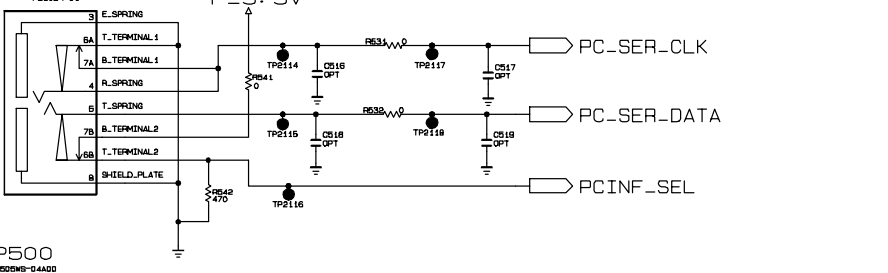
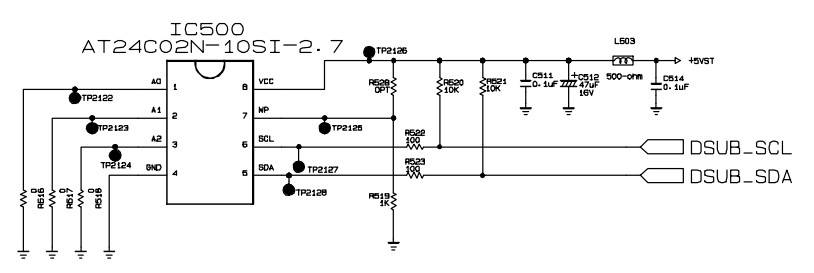
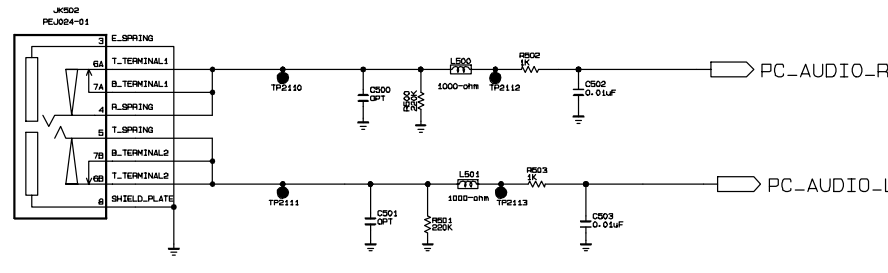
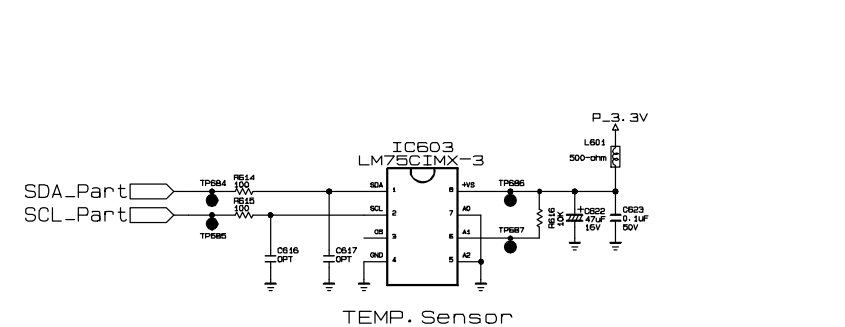
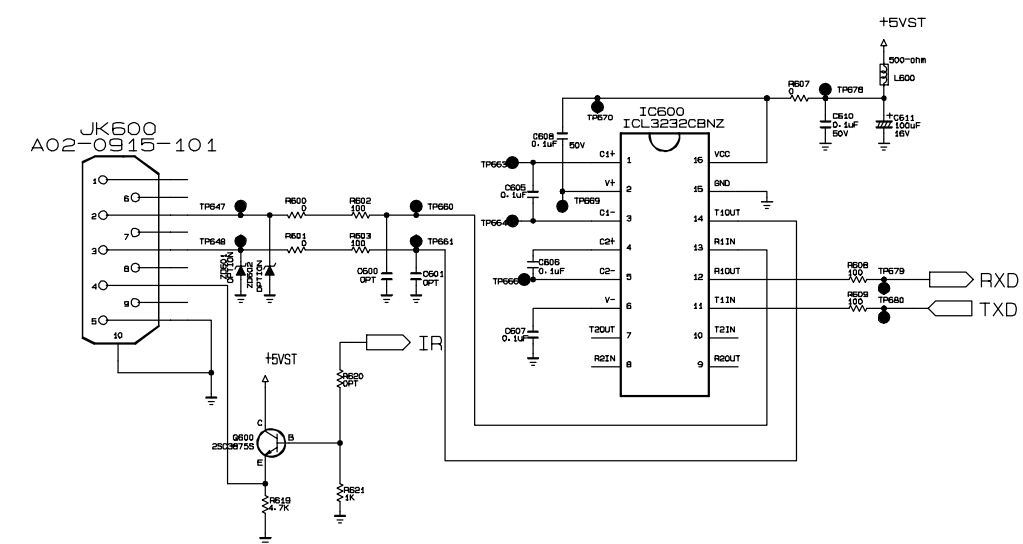
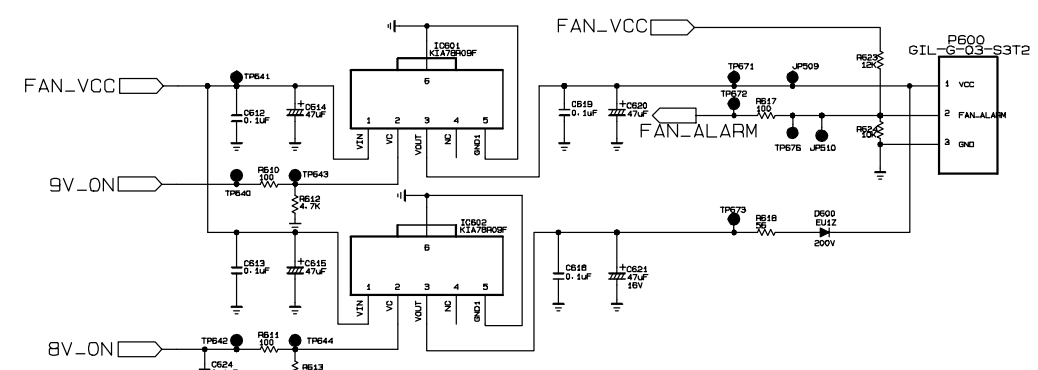
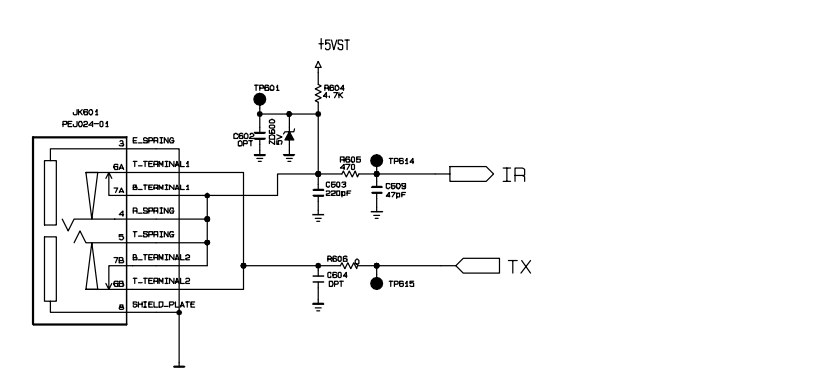
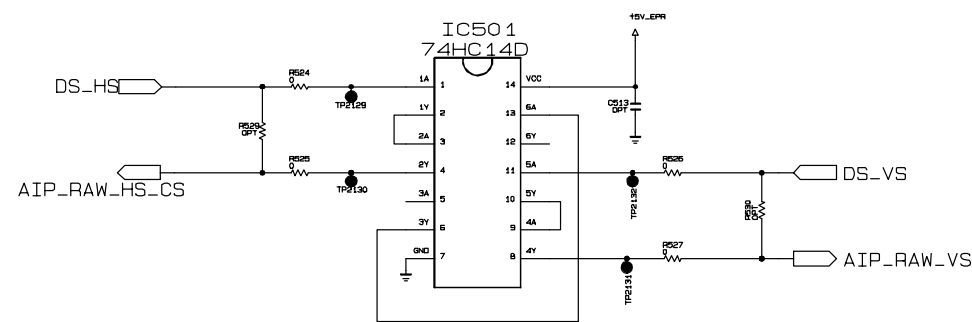
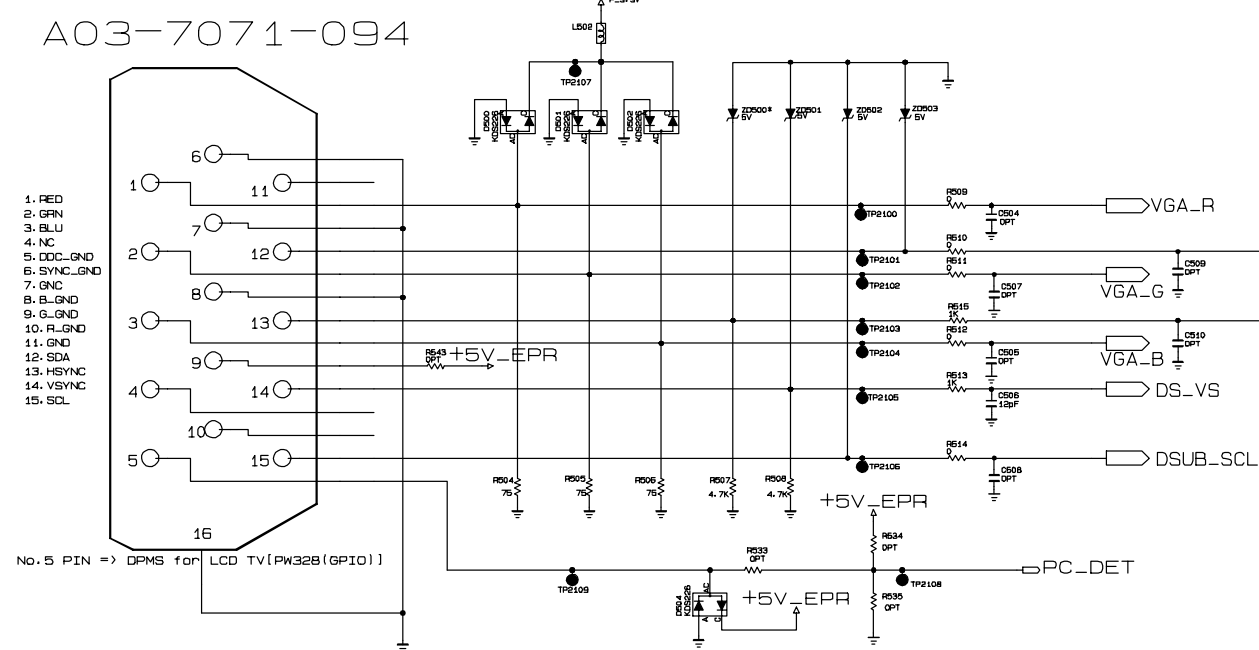
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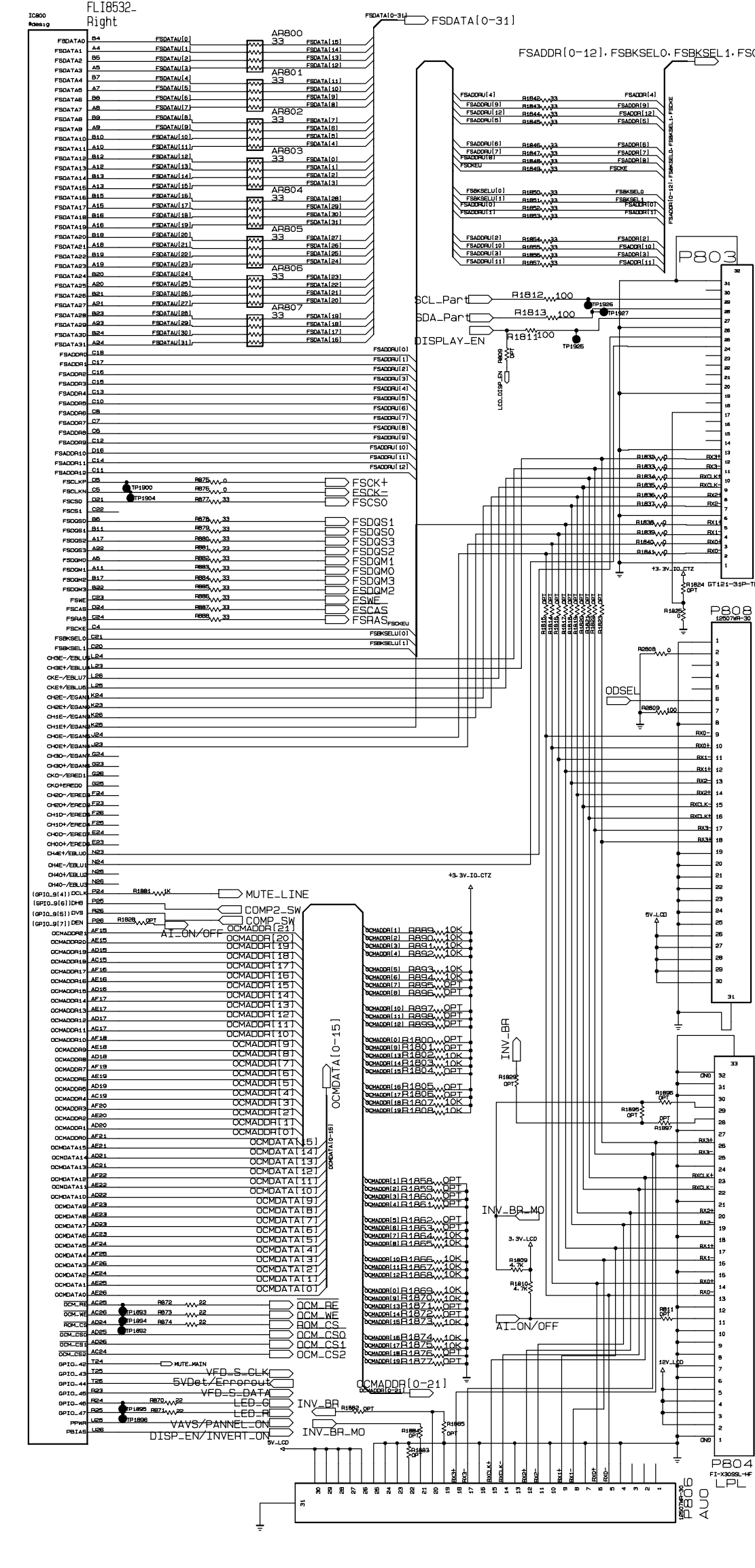
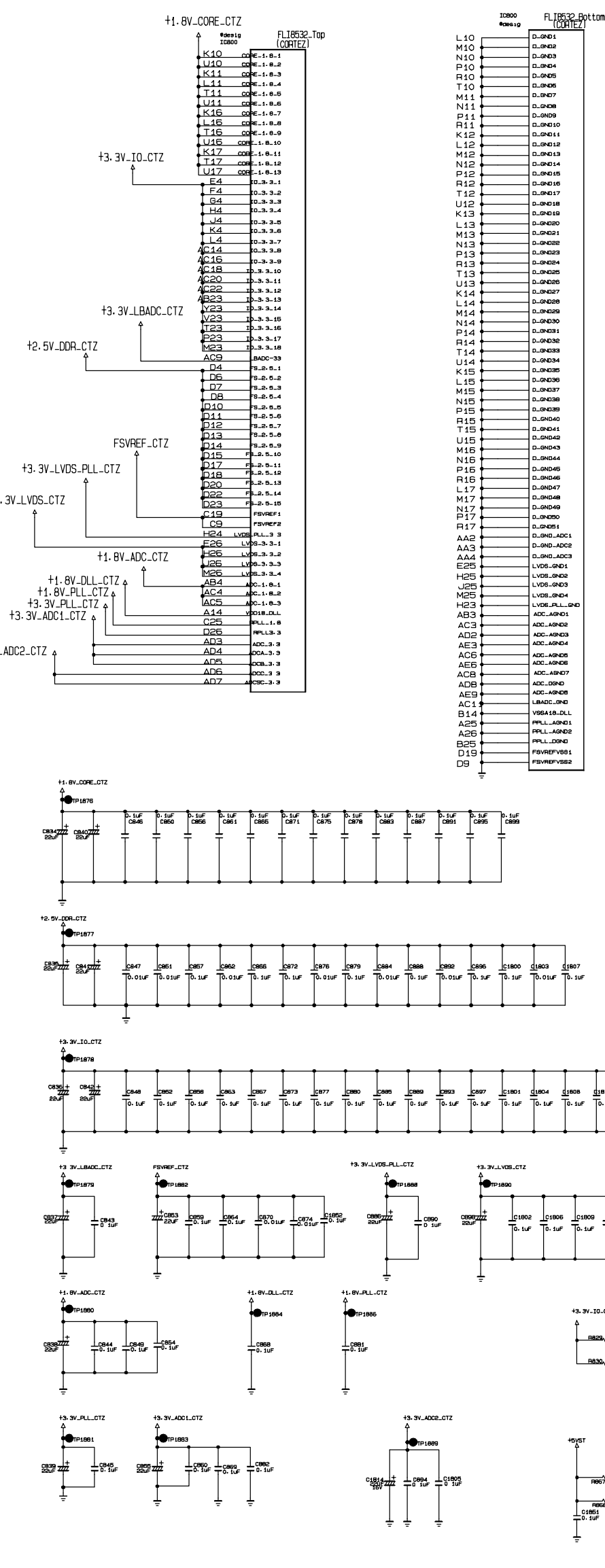
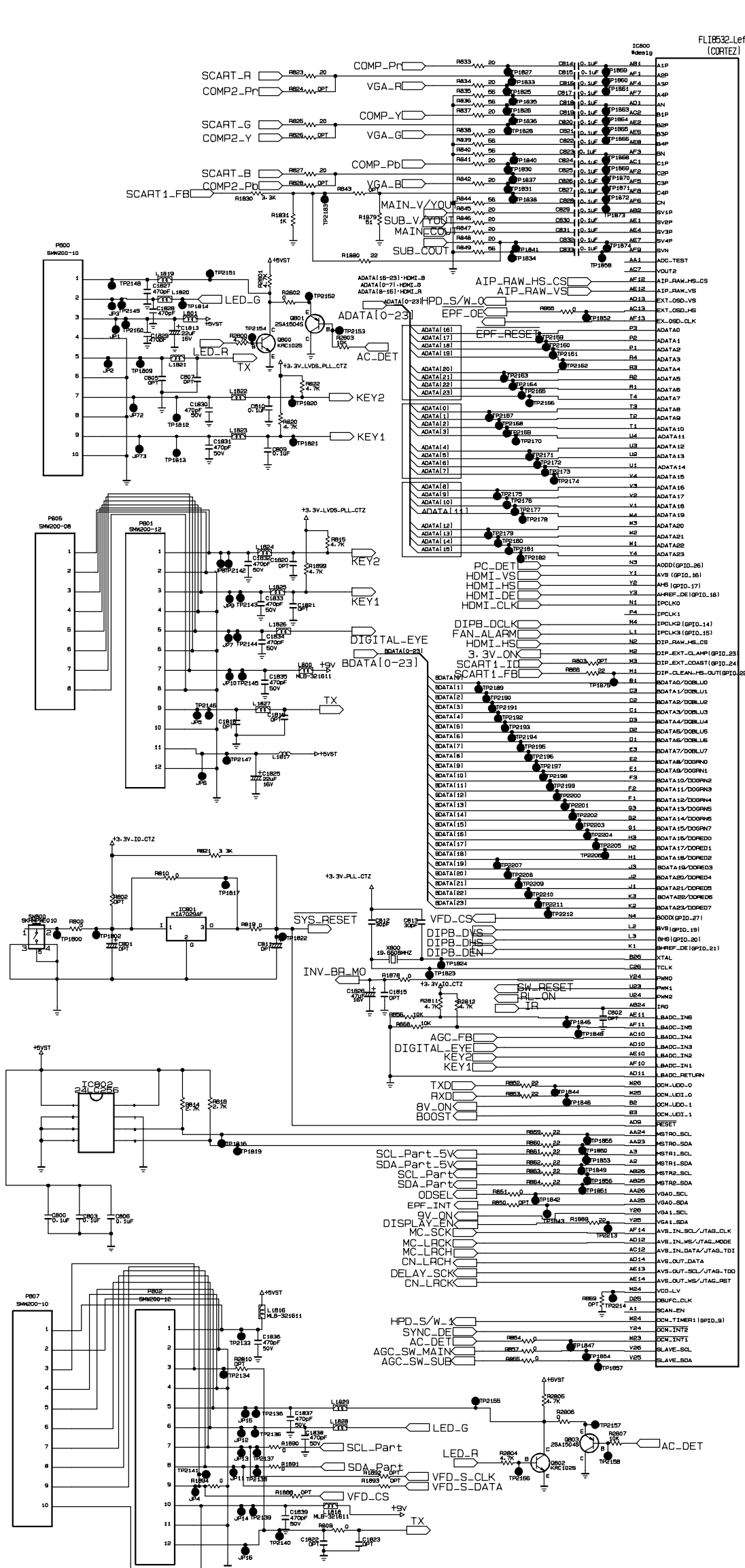
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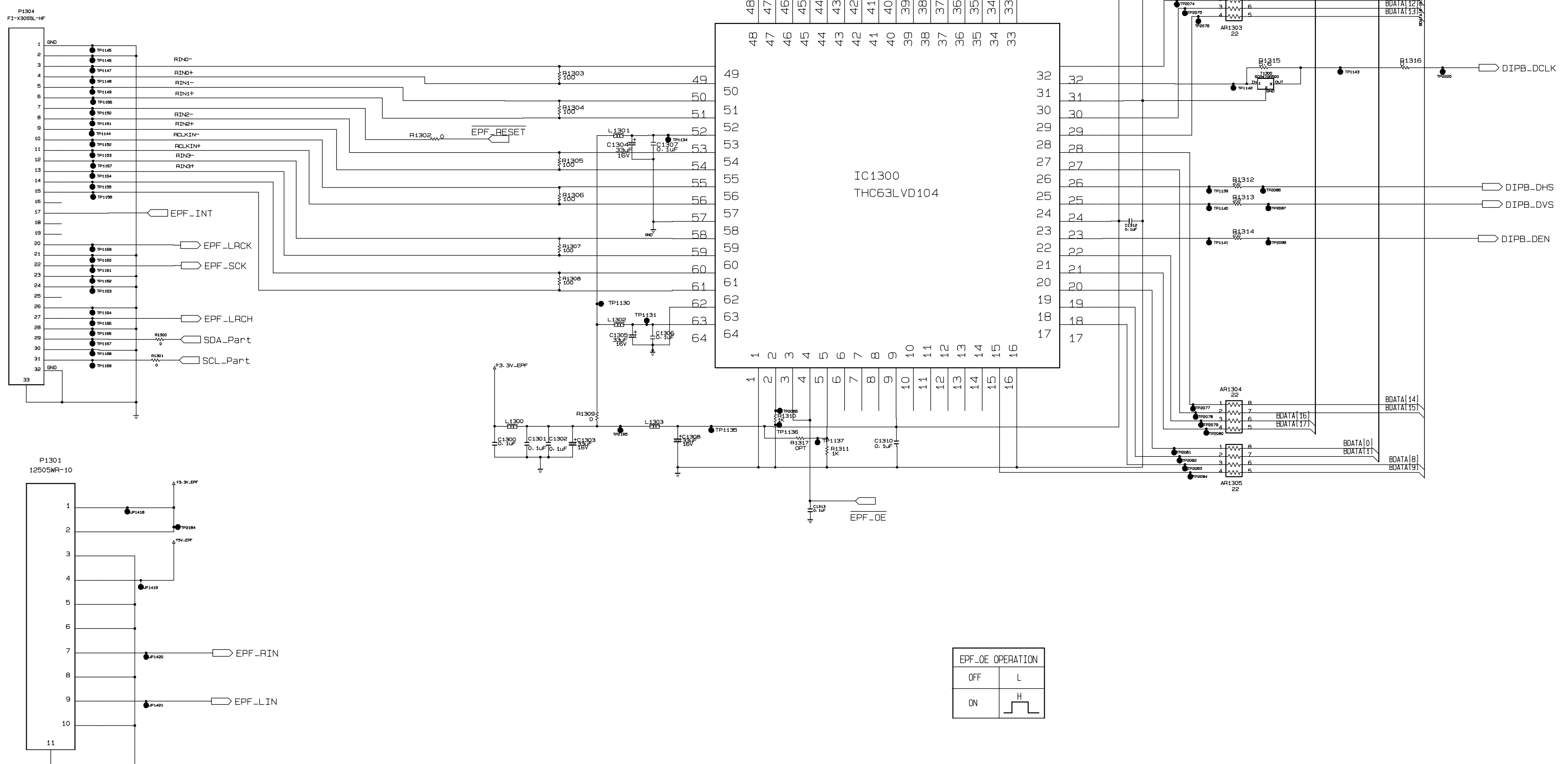
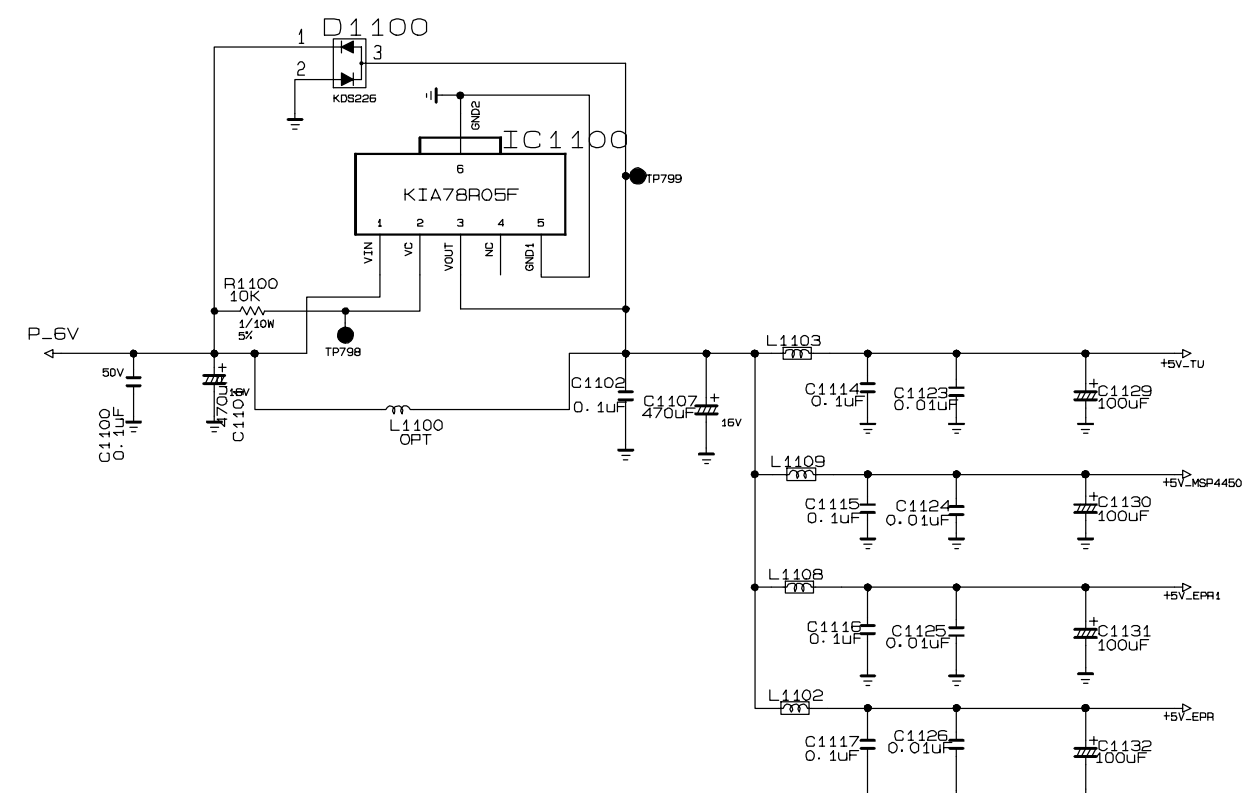
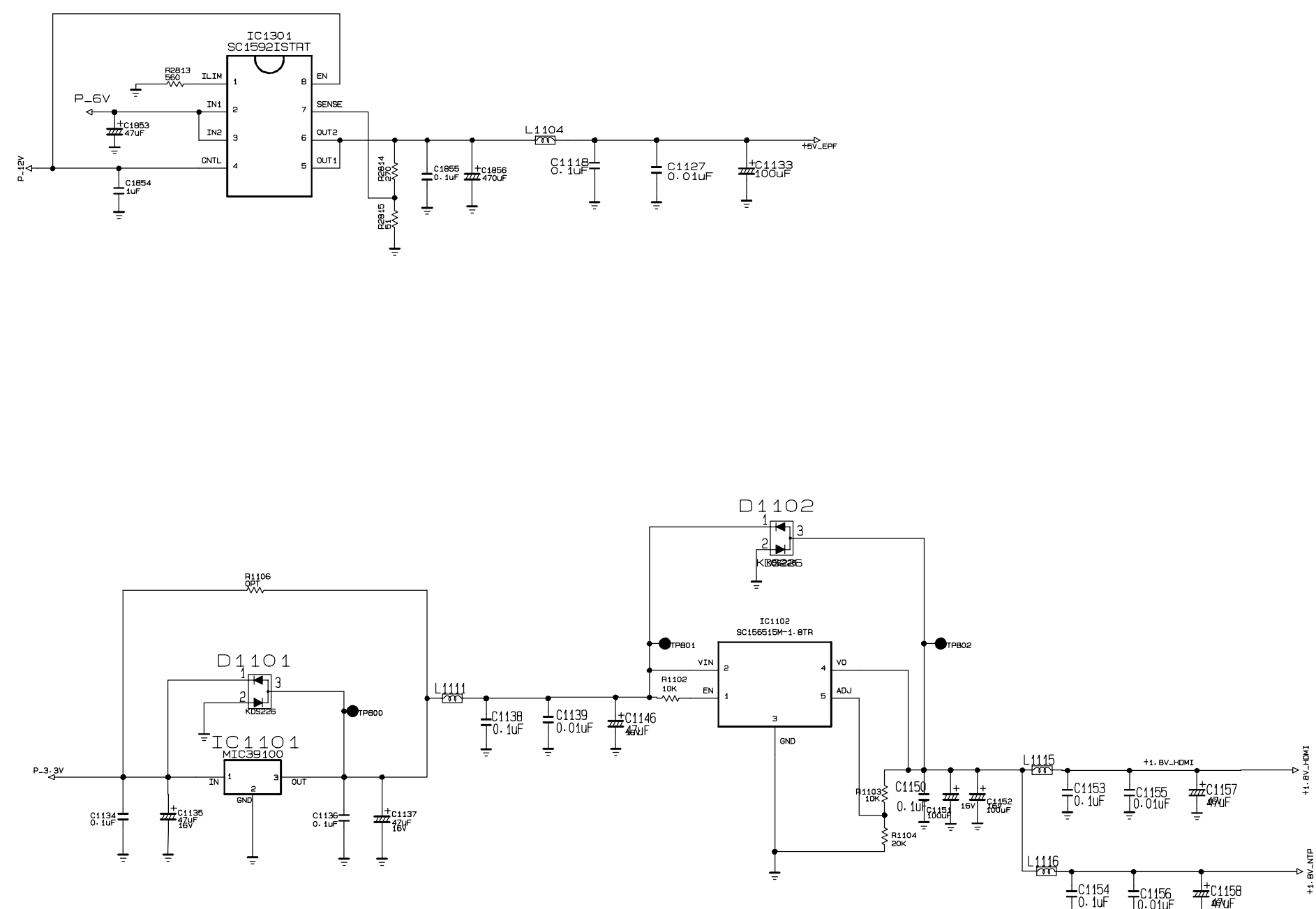
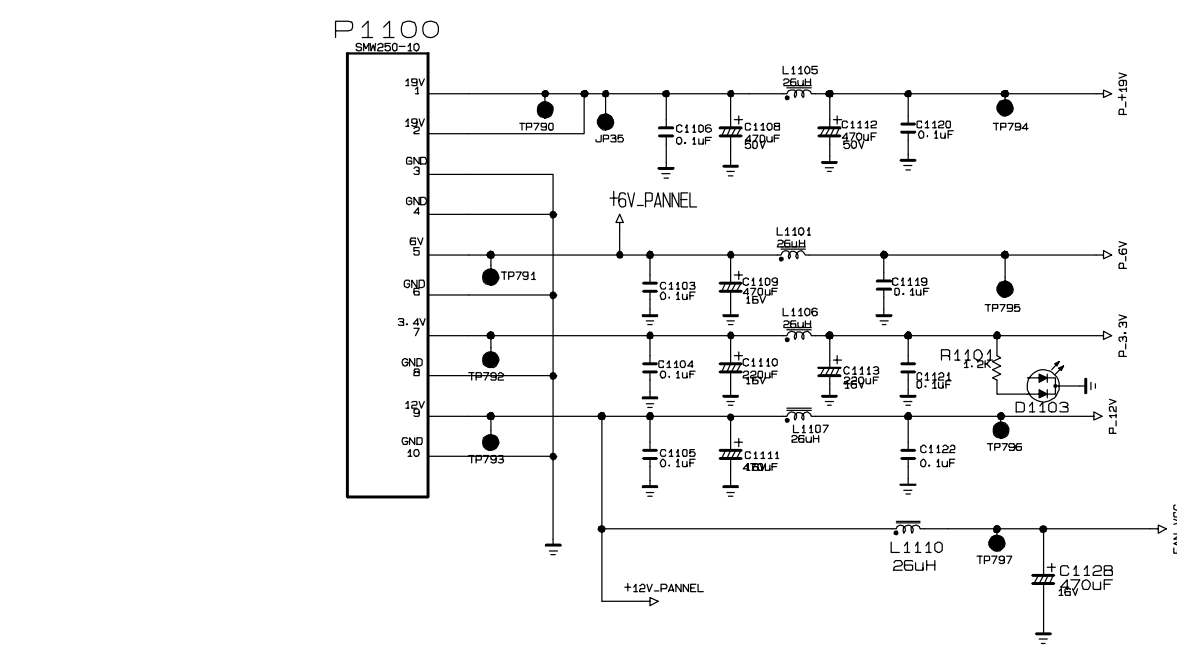
THE  SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILM AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IT IS ESSENTIAL THAT ONLY MANUFACTURER SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE  SYMBOL MARK OF THE SCHEMATIC.

JK500
A03-7071-094



THE Δ SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES
SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION,
FLAME AND ELECTRICAL SHOCK HAZARDS. WHEN SERVING IT IS
ESSENTIAL THAT ONLY MANUFACTURER SPECIFIED PARTS BE USED FOR
THE CRITICAL COMPONENTS IN THE Δ SYMBOL MARK OF THE SCHEMATIC.





THE SYMBOL MARK OF THIS SCHEMATIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILTURE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFACTURERS SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE SYMBOL MARK OF THE SCHEMATIC.



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